AMERICAN RIFLEMAN

NOW IF THERE'S NO NEW BUSINESS, SUPPOSE WE ADJOURN TO...
HEY, WAIT!
I HAVE A PROPOSAL
BUT MISTER PRESIDENT...
I MOVE WE APPOINT A COMMITTEE TO CLASSIFY MEMBERS FOR A HANDICAP MATCH SO . . .
SO YOU CAN WIN A MEDAL?
YOUR BIG HANDICAP IS YOU DON'T USE PETERS POLICE MATCH *
WHY DOESN'T SOMEBODY MOVE WE INSTALL ELECTRIC TARGET CARRIERS TO SAVE WALKING ALL THAT...
...AND THEN WHAT WILL YOU DO TO KEEP YOUR GIRLISH FIGURE?
EGGS IN HIS BEER HE'S WANTING!
LET'S CHALLENGE THE STATE POLICE TEAM TO A MATCH...
OH, NO WE DON'T!
LET'S SAVE OUR DIGNITY AND POSTPONE THAT FOR A WHILE!
WELL, HERE'S SOMETHING WE CAN HAVE. HOW ABOUT A WAR BOND SHOOT NEXT WEEK?
GOOD IDEA! THE ENTRY FEES WILL PAY FOR THE BOND
UNANIMOUS! MEETING ADJOURNED FOR THE EATS!
OKAY, PETE!
IT'LL BE SWELL WHEN PETERS AMMUNITION IS AGAIN AVAILABLE FOR CLUBS AND MATCHES
MEANWHILE - EVERY BOND WE BUY HELPS BRING VICTORY THAT MUCH SOONER
PETERS
Rifle and Pistol Ammunition
PETERS CARTRIDGE DIVISION, Remington Arms Co., Inc., Bridgeport, Conn.
*"Police Match" is a trade-mark of Peters Cartridge Division
POLICE MATCH
Ammunition

Binoculars Like This Must Pass a "Swimming" Test

Bausch & Lomb developed the first waterproof binocular—a binocular which can be immersed in a tank of water, yet due to its water-tight construction, not a drop of water can get into the interior to fog the optics or interfere with its perfect functioning.

This engineering achievement required a complete redesign of the instrument, complete re-tooling and revised manufacturing procedure. All this was accomplished without interrupting the scheduled even flow of needed binoculars to the armed forces.

Based on this redesign, both the Army and Navy now specify that *all* binoculars supplied to them be of waterproof construction.

Facilities of this plant—developed through 90 years of service to outdoor enthusiasts, to science and industry—are busy today fighting a war. After Victory new miracles of optical science for better living will come from the drafting tables, the glass furnaces and the precision finishing rooms of Bausch & Lomb, optical headquarters of America.

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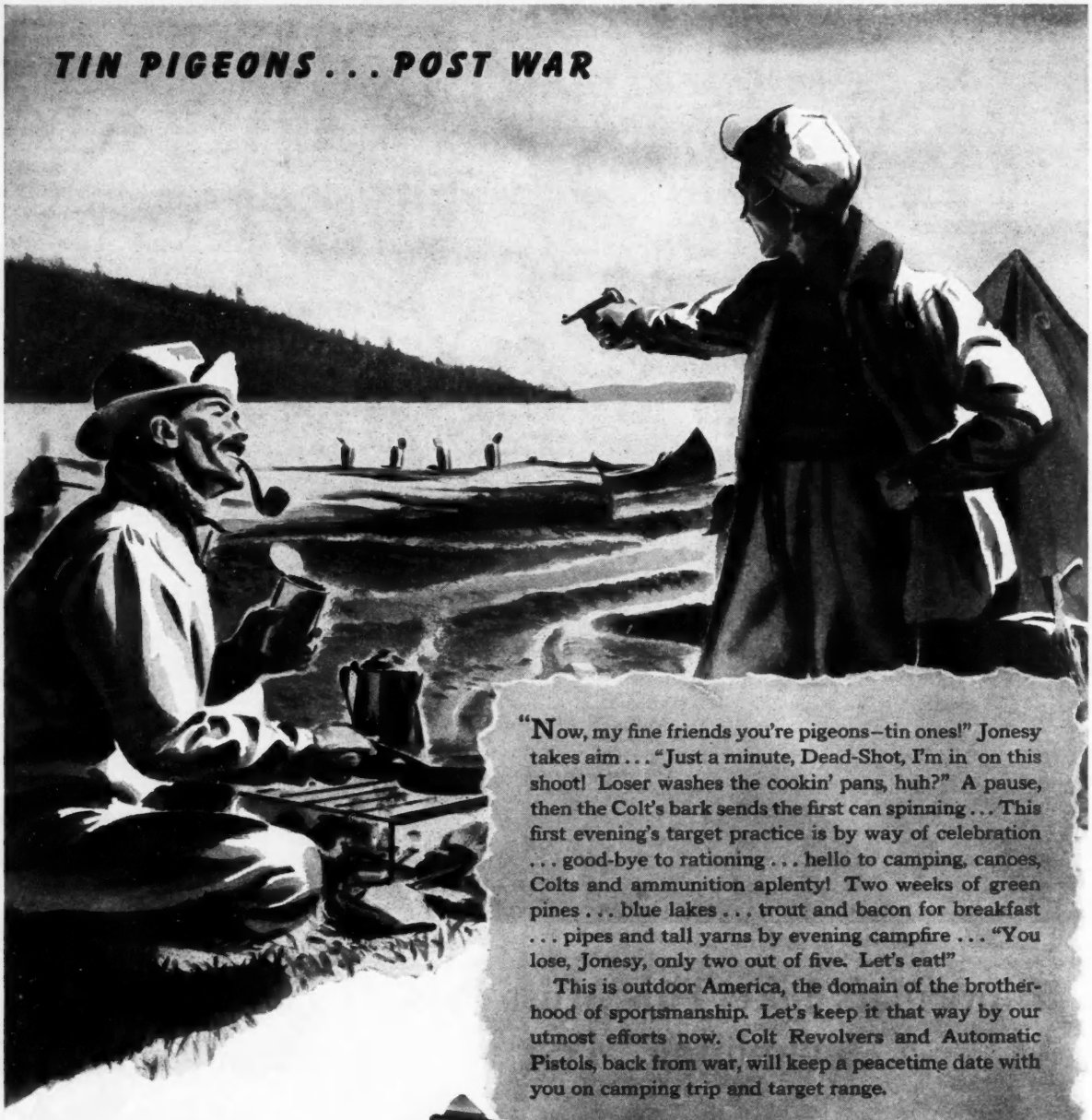
AN AMERICAN SCIENTIFIC INSTITUTION PRODUCING OPTICAL GLASS AND INSTRUMENTS FOR MILITARY USE, EDUCATION, RESEARCH, INDUSTRY AND EYESIGHT CORRECTION

TIN PIGEONS . . . POST WAR



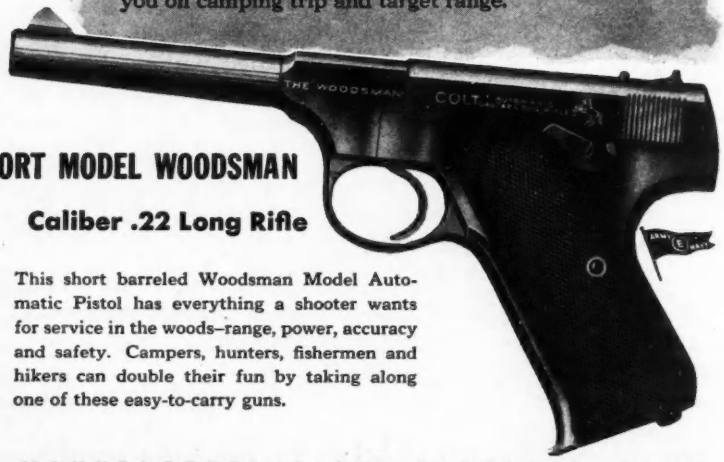
"Now, my fine friends you're pigeons—tin ones!" Jonesy takes aim . . . "Just a minute, Dead-Shot, I'm in on this shoot! Loser washes the cookin' pans, huh?" A pause, then the Colt's bark sends the first can spinning . . . This first evening's target practice is by way of celebration . . . good-bye to rationing . . . hello to camping, canoes, Colts and ammunition aplenty! Two weeks of green pines . . . blue lakes . . . trout and bacon for breakfast . . . pipes and tall yarns by evening campfire . . . "You lose, Jonesy, only two out of five. Let's eat!"

This is outdoor America, the domain of the brotherhood of sportsmanship. Let's keep it that way by our utmost efforts now. Colt Revolvers and Automatic Pistols, back from war, will keep a peacetime date with you on camping trip and target range.

COLT

SPORT MODEL WOODSMAN

Caliber .22 Long Rifle



FAMOUS COLT HISTORICAL PRINTS...Get Your Set Now!

Against backgrounds of sagebrush, saddle-leather and battle-smoke, old-time Colts recall their part in widening America's frontiers. Six prints suitable for framing – 25c postpaid. Address: Colt's Patent Fire Arms Mfg. Co., Dept. A, Hartford, Conn.

This short barreled Woodsman Model Automatic Pistol has everything a shooter wants for service in the woods–range, power, accuracy and safety. Campers, hunters, fishermen and hikers can double their fun by taking along one of these easy-to-carry guns.

COLT'S PATENT FIRE ARMS MANUFACTURING CO., HARTFORD, CONN.

The *Official Journal of The National Rifle Association of America*

AMERICAN RIFLEMAN

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L. Q. BRADLEY, *Circulation—Advertising*

U.S. Army Photo

THE COVER: Not all of our American fighting men will meet our enemies in the South Sea jungles, or on the African Desert, or in Italy. Bitter fighting lies ahead of us in colder climes. This fine kodachrome, by Staff Sergeant Frank Errigo and Corporal Ardean Miller, of the U. S. Army Signal Corps, is another reminder of things to come and proof that "G. I. Joe" will be prepared for them by pre-combat training.

THIS MONTH

Not least among the lovers of big bore rifles is Elmer Keith, author of **"The Buffalo Sharps."** With obvious nostalgia, Keith tells the story of that most beloved of all the rifles of The Old West; rifles made for big men hunting big game; rifles capable of proving, even at long ranges, the hunters' boast of "one bullet equals one hide!" It spelled death for the buffalo, but it makes a fine story.

"The Best Heritage," by Major Walter Stokes, shows how yet another phase of NRA's peacetime work is paying dividends in America's war effort. Major Stokes, like many other NRA-trained expert riflemen, is now teaching the Army of the United States to shoot.

"John Sevier's Riflemen," by Francis Sell, is a story of the American rifleman of yesterday at war. In freeing this country then, he was pitted against savages as relentless, as fierce, as any fighting men today; and his technique was much the same as ours in use in the South Pacific jungles.

". . . Gunstock Design," by Clyde Baker, is an attempt to tell the average rifleman that his favorite tool can and should be a thing of beauty as well as utilitarian. This can be done by nearly any rifleman who glories in the possession of a good rifle, by simple hand work, with few tools on the wood of his stock. He need have only a basic understanding of "gunstock design" and moderate mechanical skill. Clyde Baker tells you how to do it.

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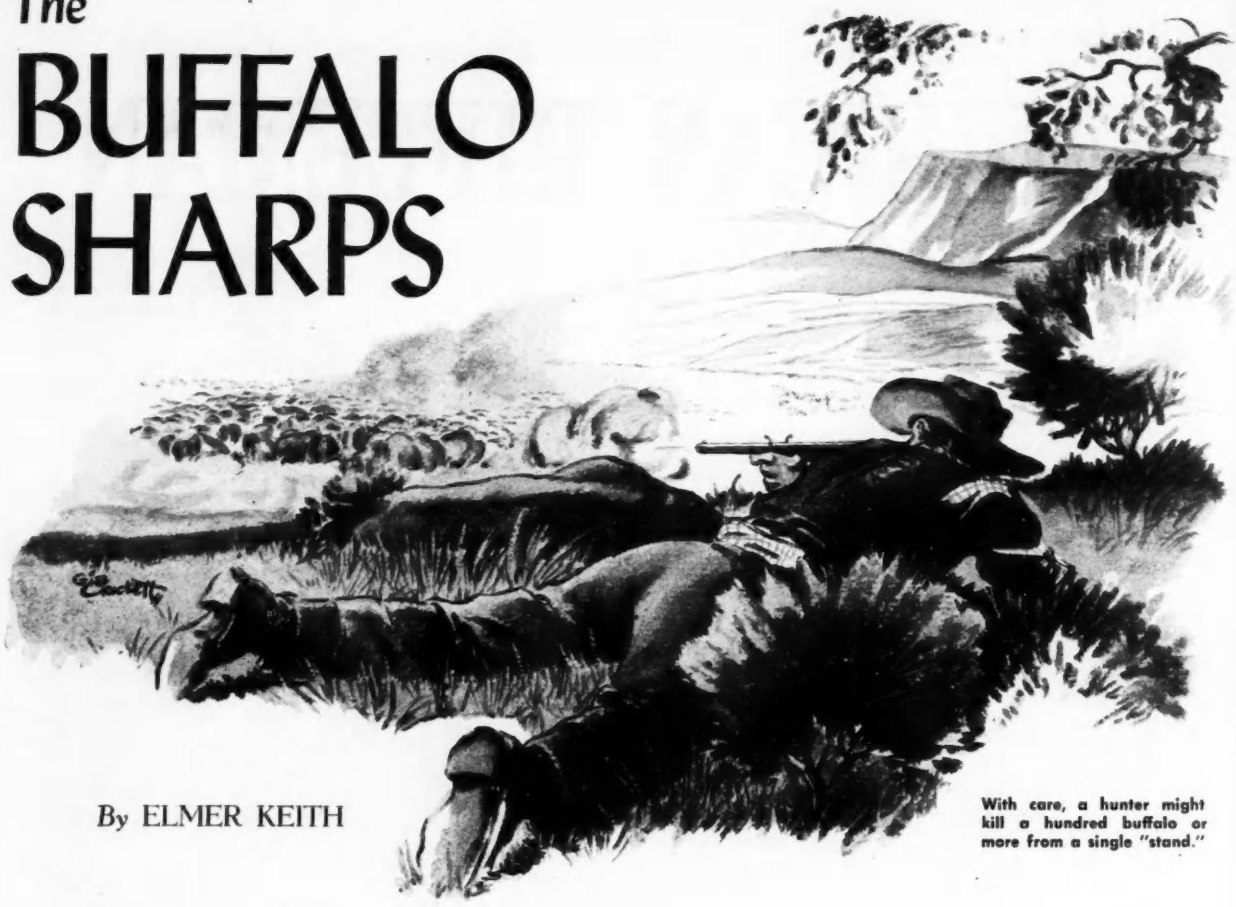
The BUFFALO SHARPS



With care, a hunter might kill a hundred buffalo or more from a single "stand."

By ELMER KEITH

PROBABLY NO SINGLE SPECIES of big game ever existed in such vast numbers in a like area anywhere in the world as did the buffalo on our western ranges. And probably no other gun ever killed as much game in terms of pounds or tons as did that king of the buffalo rifles, the Sharps.

It is almost impossible for hunters today to imagine the conditions encountered by the buffalo hunters of the '70's. Buffalo ranged the prairies then literally by the millions, the larger herds following the grass northward to the Dakotas, Montana, and Canada in the summer, turning south as snow covered the northern ranges, wintering in the valleys of the Republican, the Smoky Hill, the Solomon, the Arkansas, the Cimarron, the Canadian, the Brazos, and the Colorado. During that southward swing they came into their winter coats, and September to March was the buffalo hunters' "season."

The heaviest buffalo concentration lay in a strip roughly five hundred miles wide by fifteen hundred miles long; a strip reaching southward to about the Colorado River in Texas and northward into Canada. These were the Great Plains; relatively flat country, cut by flowing streams, thinly peopled—carpeted with that short, curly, meat-making grass, God's gift to the buffalo and mainstay, later, of the western cattle industry: "buffalo grass;" a hay that cures and sweetens on the stem, requiring no cutting; a grass so hardy that not even those millions upon millions of churning, restless hoofs, buffalo and longhorn, could damage it.

The saga of the buffalo hunters, and of the Buffalo Sharps, covered roughly a decade; a decade centering approximately around 1870 or '71. That was the decade in which commercial hunting reached its peak; when Caldwell and Dodge and other such towns saw buffalo hides stacked by the thousands in vast ricks higher than a man's head and longer than a football gridiron; when a day's kill for a hunter was a hundred or more; when a record season's kill for one hunter was 3300 buffalo.

With buffalo hides bringing from two to five dollars, depending upon size and condition, with buffalo moving in herds numbering up to more than a million—herds stretching literally as far as the eye could reach—small wonder that an army turned out for the slaughter; an army estimated at from ten thousand to twenty thousand "professional hunters," not counting other untold thousands who wanted a tongue, or a tenderloin, or a robe, or enough leather to make a belt, or merely a thrill!

Few of the present generation of hunters have ever used a big Sharps on game or even at a target; and no one who has not used it can have any real conception of the power, range, and fine accuracy of this old rifle. Hunters today don't realize that even our .375 Magnum is a smallbore compared to some of those old Buffalo Sharps; small not only as to caliber but

also as to game-killing energy! And as to accuracy—don't laugh at that old side-hammer Sharps, or at the man who uses it! As late as 1900, a .45-120-550 Sharps Creedmoor won the Wimbledon Cup Match. Properly loaded and aimed, they will make groups today at from two to six hundred yards that modern rifles will find it difficult to better!

As a lad in Montana, I knew and hunted with some of those old buffalo hunters and listened to the tales they told. At one time, I had more than forty of those old rifles. I have only four left now; a .40-90, a .45-100-550, a .45-120-550, and a .50-170-700.

Contrary to romantic belief, buffalo were not hunted by the commercial hunters by the old ride-'em-down, shoot-'em-from-horseback method made famous by the bow-and-arrow Indian and by some of our white showmen. Buffalo hunting was a business. Ammunition cost money. Animals killed in such a chase would be scattered over miles of country, difficult for the skinners to find. Moreover, a herd so stampeded would be gone, leaving the hunter the necessity of following it or else of finding another herd.

Commercial hunters located a herd, approached it warily, settled themselves behind the crest of some ridge or behind a rock or bush—and started shooting. With care and accuracy, dropping each animal dead and picking first the animals down wind from their neighbors, a skilled hunter would kill from a dozen up to a hundred buffalo without changing his "stand." Killing the animals on the down-wind side kept the living from scenting the blood of the dead and they would pay no heed at all, often, to the animals dropping dead around them.

Such shooting required long-range, powerful rifles; rifles and cartridges accurate enough for heart shots at two hundred to four hundred yards and further; rifles and cartridges with sufficient "punch" to drop the big, hardy buffalo at those ranges. Two or three such rifles were made to meet this demand, but the Sharps was the most popular, the most widely used.

The buffalo hunter himself, taken as a class, was probably the finest game shot this country ever has produced or ever will produce. He thought nothing of making repeated heart shots on buffaloes at two to three hundred yards. Even at double those ranges, he would still kill. He was good, and he was tough! He had to be! Those big Sharps delivered a wallop at both ends, and on a "stand" as described above, he would shoot steadily until the rifle was too hot to hold, or until its accuracy was impaired by heat waves over the barrel or by bore-fouling. Some hunters carried a small water bottle, as well as cleaning rod, and cleaned their guns carefully with water after each ten or dozen shots, thus cooling the barrel.

An army of ten to twenty thousand professional hunters, armed with rifles capable of one-shot kills at four to six hundred yards, made the saga of the buffalo short.

I never heard one of them complain, however, about recoil, or about the weight of those old rifles either. What would they think, I wonder, of the plaints and complaints of our modern crop of hunters? They carried rifles ranging in weight from twelve to eighteen pounds, or more—plus ammunition—plus, often, a muzzle-rest made of wood or metal. Often too, of course, the muzzle-rest was improvised out of sticks.

They did their firing usually from a kneeling or sitting position, sometimes prone, with the muzzle supported on a rest either naturally provided or driven into the ground or held lightly by the left hand. Many used the regular open sights, but some of the more successful used peep and telescope sights. And they knew their guns! They proved that by the terrible execution they did—on the buffalo, and on the Indian in many bloody encounters! Remember the battle of the 'Dobe Walls!

From what they told me, the Big Fifty Sharps accounted for the greater number of buffalo, more being killed with it than with the .40 and .45 caliber rifles. The Big Fifties were brought out while the Sharps Rifle Company was located at Hartford. It was usually made in twelve-, sixteen- or eighteen-pound weights and in caliber .50-95-473. The real Big Fifty took a 3¼-inch case loaded with 150 to 170 grains of powder and a bullet of 550 to 700 grains. These rifles usually had a silver fore-end tip, and were *not* stamped "Old Reliable" on the top flat of the octagon barrel. However, their use on buffaloes led to the company's practice of stamping "Old Reliable" on the later

Buffalo guns. Top to bottom: a sawed-off muzzle loading shotgun used by some ride-'em-down hunters. Model 1873 Winchester .44-40 carbine. The .45-120-550 Sharps. A seven-shot .56 caliber Spencer carbine.

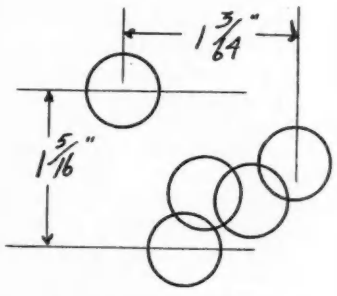
Model Sharps made at Bridgeport. The .45 Special, made and chambered for the .45-100-550 with a 2⅞-inch case, and the .45-120-550 with a 3¼-inch case, came out during the latter part of the buffalo extermination period, as did the two .40 caliber buffalo cartridges, the Sharps .40-90-370 Bottle Neck and the .40-90-370 to .420 Sharps Straight in a 3½-inch case.

Abbott told me he killed his last buff in 1884 with a .40-90-370 Sharps Model 74, sixteen-pound weight. O'Connell said he killed his last one in 1883 with a .45-120-550 Sharps side-hammer Model 74, fourteen-pound weight. O'Connell stated he had, on a few occasions, killed stray bulls with that rifle to a full half mile by noting the dust spurt up from his first shot and making the necessary corrections for his second. In actual killing power, range, and accuracy, those big Sharps single-shot rifles far outranked anything else of their day, and were much more powerful rifles than anything now made in this country for sporting use.

Let no man think those old timers couldn't shoot. I spent many days shooting with W. P. Abbott from the door of his cabin, using a chair for a rifle rest. For targets he usually selected small white rocks three or four inches in diameter, placed a measured 200 yards away. He very seldom missed one. He knew that old .40-90 Sharps and knew how to load it to get best accuracy. He was as fussy as an old hen with a single chick about his bullet temper and his powder, which was poured through a long tube after he had first screened out all dust and broken grains. Also his patches had to be hard bond paper, cut exactly right so the ends did not overlap. Those patches were rolled on wet and then laid on a shelf over the stove until they had dried and shrunk hard on the bullet. Then the curl on the base was snipped off close, if on a flat-base bullet, or pushed into the hollow base if that variety of slug was used. Those old paper patch slugs, the forerunner of modern metal patch bullets, paved the way for the modern development. Even today many of those fine old Sharps Buffalo Rifles if loaded right will make the finest modern match rifles hump themselves for grouping at 200 yards.

A minimum of loading tools was required to keep the big rifles in ammunition. All that was required was a de- and re-capper, a bristle brush for washing the fired cases, a supply of caps or primers, bullet metal, a supply of patches or paper, shears, and a patch mould. The black powder was measured by most hunters and those old tools usually included a charge cup and small funnel. Patches were obtainable in bundles of 500 each. Factory swaged and patched slugs were available, as was loaded ammunition; but the cases were washed, dried, and reloaded many times. Low breech pressure prevented cases from swelling, and in a properly chambered rifle the next patched bullet fitted friction-tight in the case neck if the patch was of correct thickness.

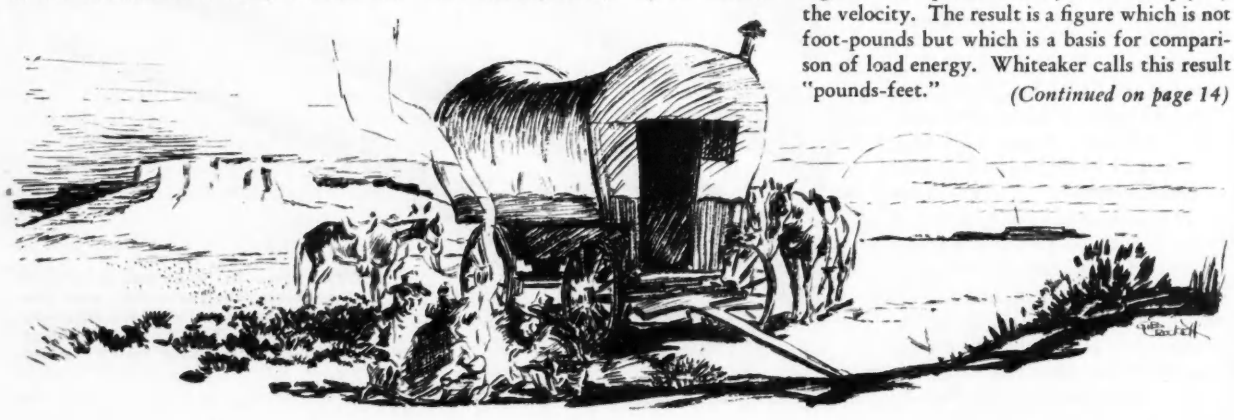
Usually a hard card wad was loaded on top the powder charge; then a wad of lubricant, usually beeswax and tallow mixture or straight tallow if the wax was not obtainable. The patched slug was then forced into the cast with the fingers. The long heavy soft slugs upset on firing to fill the rifle bore perfectly and, at the muzzle, the patches whirled off in strips, usually ruptured longitudinally where the lands had cut into the bullet. If the heel or tail of the patch stuck to the base of the bullet, that slug was apt to go wild. Otherwise, if bullet temper was correct, the old rifles, correctly loaded, had exceptional accuracy.



Five-shot 100-yard group from an 18-pound .45-100-550 Sharps, prone rest, iron sights. Fired by Elmer Keith.

Hunters today who think our modern commercially-made American rifles and cartridges the most powerful ever used in this country, should see and use some of the .45 and .50 caliber Sharps long-range rifles. Remember, those big rifles and loads were developed by men who knew exactly what was needed for killing our largest American fauna with certainty and dispatch and, in most cases, with a single shot to each animal. Times have changed and game is now wilder and harder to approach in the open, but in the timber powerful rifles are needed now as in the old days for our larger species of big game. Those old buffalo runners killed more game in one season than most men of today kill in an entire lifetime, so the lessons they learned should not be entirely forgotten.

To find the actual killing energy of the old Buffalo Sharps with its two most powerful loads, take the Whiteaker formula explained in my article, "Killing Power", in the June, 1939, RIFLEMAN. This formula is much simpler than that required for determining foot-pounds of energy, yet it is the only formula I have found that puts all loads in their proper places as regards actual killing power on heavy game. Take the weight of the bullet in pounds (i.e., bullet weight in grains divided by the number of grains in a pound: 7000) and multiply by the velocity. The result is a figure which is not foot-pounds but which is a basis for comparison of load energy. Whiteaker calls this result "pounds-feet." *(Continued on page 14)*



An Editorial

National Service Act

THE proposal for a complete mobilization of the Nation's civilian man power is as deserving of cool, careful discussion as were the Selective Service Act and the Federal Property Requisitioning Act.

Such discussions are no place for hysteria, name calling, or political maneuvering. After two years of war the American people are in a mood to face facts. The political straddler, the rabble-rouser, and the spellbinder are alike in disrepute. The average American, who has no high-powered lobbyist or publicist to fight his political battles and who quietly disagrees with the loudly announced demands of the self-perpetuating leaders of his special-interest group, has begun to say his say in the polling place and in letters to his Congressman. Perhaps a more courageous and a more statesmanlike Congress will result.

Immediately after the last war, veterans asked for a sensible, workable National Service Act which would, in democratic fashion, mobilize the Nation's material resources and man power for military service and for industrial production.

It is more than coincidence that the President's request for a National Service Act comes immediately after he has personally observed the reactions of our fighting men to the constant work stoppages and slow-downs which have disrupted the flow of munitions to the fighting fronts.

It is both hysterical and bad judgment for opponents of a National Service Act to talk about "involuntary servitude" for men building ships where such talk can be heard by men who have had their ships sunk under them. Hungry, bloody men repairing tanks under enemy fire do not like to hear how terrible it is for a man to be drafted to build tanks in a comfortable factory complete with cafeteria, sanitary washrooms, and time and a half for overtime.

A Senator's remark that "unless they draft the dollars with the men I am opposed to a national service act" is the kind of superficiality that creates a smoke screen where every effort should be made to clear the air. *Men,* nearly ten million of them, have *already* been "drafted" under Selective Service. *Property,* millions of dollars worth, has *already* been "drafted" under the Property Requisitioning Act. *Dollars,* millions of them, have *already* been "drafted" in the form of contract renegotiations and increased taxes practically eliminating private profit. *Food* has been "drafted" under rationing. About the *only* thing that has not been "drafted" is the military-draft-exempt civilian man power of the Nation. Admitting this fact is one of the first essentials to intelligent discussion of the National Service Act proposal.

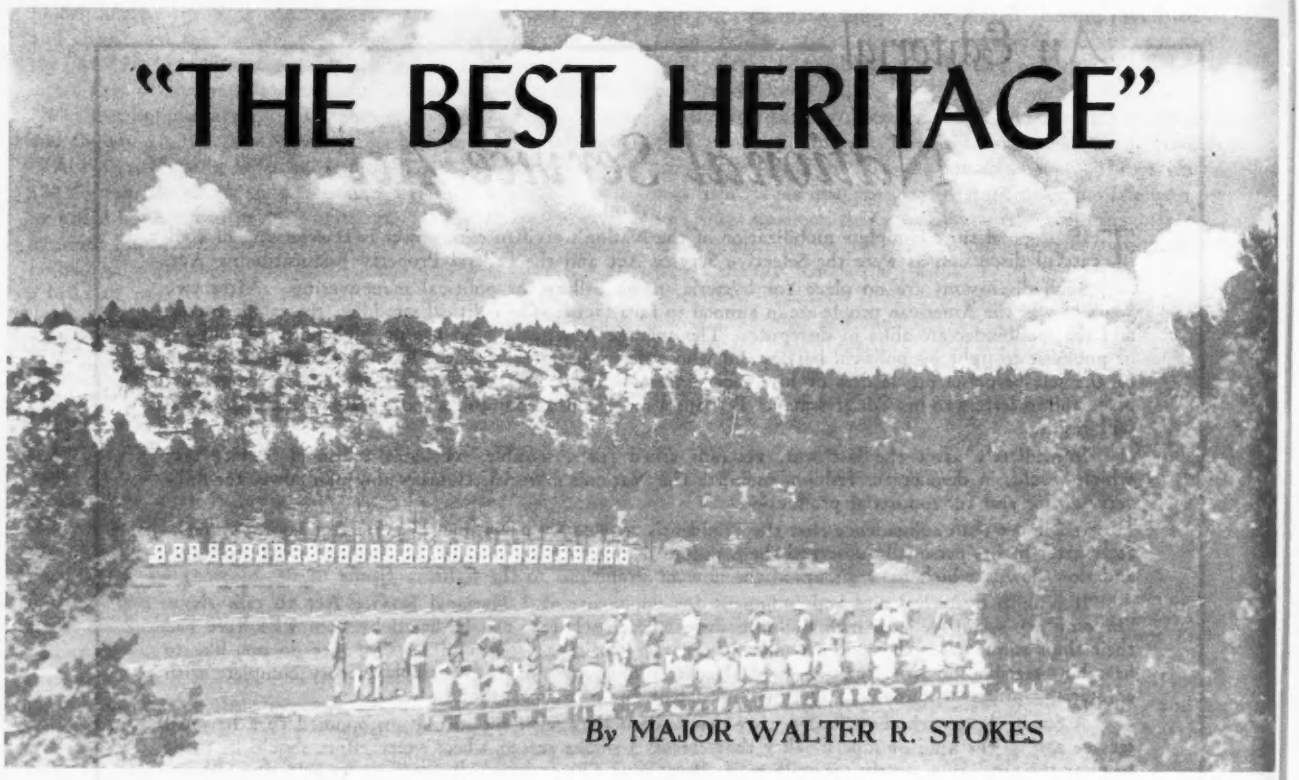
On the other hand it must be admitted that the greatest *legitimate* opposition to the proposed act stems from two questions which loom large in the minds of many sincere, patriotic Americans.

Question No. 1 is—"If, as Mr. Roosevelt and his official family have so often stated, strikes, slowdowns, and absenteeism have not seriously affected the war effort during the crucial period when the Nation was trying to accumulate the munitions with which to fight an aggressive war, why is a National Service Act necessary at this time when existing facilities are being placed in a 'stand-by' condition and military training programs are going on a replacement basis?" Until this question is answered without equivocation by the President, intelligent discussion of the current need for a National Service Act will be impossible.

Question No. 2 is—"If the enormous power over the lives of American citizens which would be necessary in a National Service Act is granted to the President, will the power be sensibly used?" The fact might as well be faced by those who are friendly to the idea of a National Service Act that the greatest objection to such an act arises from the fear that the granted powers would be used in the same bungling, uncoordinated, economic-experimenting fashion as has characterized operations under previous Congressional grants of broad powers to the Executive Branch. The recently acquired habit of the Supreme Court of the United States of reversing its own decisions amid public bickering among the Justices; the by-passing of the courts by non-elective Boards and Commissions; the coddling of special-interest groups; the whole picture of bureaucratic government by regulation instead of by legislation provides the principal valid reason for objection to the immediate passage of a National Service Act.

These facts must be faced and these questions answered without regard to party politics if a National Service Act is to become law in the form befitting a democracy.—C. B. L.

"THE BEST HERITAGE"



By MAJOR WALTER R. STOKES

◇ ◇ ◇

Back in 1871 the National Rifle Association was conceived and dedicated to the education of the "youth of the nation in marksmanship . . . both as a sport and for the purpose of qualifying as finished marksmen those individuals who may be called upon to serve in time of war." The Association has left no stone unturned in the efficient execution of this purpose.

Through the years the NRA has encouraged training and proficiency in the use of arms. It has provided facilities, equipment and incentive in the form of competition for the development of the greatest skill in this field among its members. This peacetime training now serves the country at war, as many NRA members pass on to the men in service that knowledge and skill which they have gained from years of shooting under the guidance of the NRA.

One member thus engaged is Major Walter R. Stokes, a physician, formerly of Washington, D. C. A Life Member of the Association, Major Stokes started competitive shooting in 1913. He served as a rifle instructor in the Navy during the last war. Member of eleven International Teams, he has won seven World's Free Rifle Individual titles and was National Intercollegiate Rifle and National Indoor Gallery Champion. During the Wimbledon Cup Match in 1920, he made the first 1,000-yard possible ever recorded at Camp Perry. He holds the National Individual Military Rifle and the Army Distinguished Marksman medals.

He has coached many National Championship civilian and National Guard teams. Now he is coaching a part of the greatest rifle team of the world—the Army of the United States.

Stories of other members similarly engaged will be published in our forthcoming issues.

◇ ◇ ◇

NOT LONG AFTER THE START of this war a new branch of the Service was born. It was christened The Air Transport Command. It is unnecessary now to stress its importance. It has become a vital part of our modern Army. Although it is normally a noncombatant branch, it becomes a fighting one when it is subjected (as it sometimes is) to enemy paratroop or air attack. It was determined early in the game that the men of the ATC must be well trained in the use of small arms and the training resulting from that decision has been intensive. The title of this article is taken from the motto of our Weapons School at Camp Luna: "From this school go forth men possessing the best heritage of American marksmanship skill."

The first few frantic months here were a rifleman's nightmare: miserable facilities, rough weather, green instructors, lack of time for preliminary instruction, always high pressure to "turn 'em out" with a lick and a promise. But during this period of tribulation a fine organization took shape and gradually, with the warm support of our Commanding Officer, Col. Harry S. Berry, we built up facilities.

Associated with me in the beginning was Major Clarence Shields, D. C. National Guard veteran; Capt. Bill Coffman,

Traditional skill with the rifle is the best heritage of the American going into service. It is the privilege of the NRA trained coach and instructor to mould and perfect this inherent prowess in our men.

lately of the Infantry and present National Military Rifle Champion; Capt. Harry McLeod, leading Georgia National Guard shot; and Capt. Al Nowell, old Cavalry rifle and pistol team shooter. Through transfers we have lost Major Shields, Capt. Nowell, and Capt. McLeod, but have gained Capt. Percy Gibson, old Navy and D. C. civilian shooter; Captains Bob Beckvold and Tom Montgomery; and Lt. Ed Boudreau, experienced automatic weapons specialist. Among this crew there was no lack of veteran "savvy" and each one was imbued with the old "college try" (NRA style). All of us were able to bring to our work that enthusiasm peculiar to those chronically afflicted with Camp Perry-itis.

As quickly as possible we culled likely coaching material from among our trainees. Of experienced shots there were practically none. But we knew what to look for: intelligent youngsters who happened to show a real yen for shooting. We finally got together about fifty of these boys who showed favorable signs of being seriously "touched in the head" over marksmanship and in a year and a half they have become an amazing corps of expert coaches, avidly absorbing the wisdom of our veterans and dishing it out with steady interest and pride. I think wistfully of what a National Match Team they would make in happier, less troubled times!

Dr. Stokes prescribes the carbine, Garand, and the Tommy-gun for certain enemy ailments. His students listen intently (below) as he gives them the how and why. Then they go out and qualify as riflemen. This training is sure to effect the cure for the Japs and the Germans.

Today our facilities are as complete as our organization. Both are smoothly polished and we are doing a job of basic marksmanship training which is a little more efficient than anything I have ever known. Despite a total training time of only twenty-two half-days, and despite the fact that our work is with unselected run-of-mine trainees, our qualification percentages in recent months have reached these remarkable figures: Cal. .22 rifle, course "F", 98.5%; M1 Carbine, 94%; Springfield (M1903) Rifle, course "C", 92%. We have reduced the business of qualifying to a point where it is a matter of personal concern to us if a man can't make the grade and we do a lot about it to ascertain and eliminate his troubles.

I want to tell you how we have things planned in our School. First of all, we don't follow rigidly anybody's "school" or "system," though we make profound acknowledgments to the Schools at Fort Benning, Quantico, and Camp Perry. We have had to use imagination and adapt with a free hand and we have certainly done just that.

We start our trainees out in new classes every fifth day and maintain five sections of the school in continuous operation, so that a class graduates every fifth day.

The first section of work constitutes four half-days of lecture and demonstration. This covers the fundamentals, and is abetted by a lot of spicing of interest through devices such as a discussion of the history of arms; the history of marksmanship; an evaluation of field problems ahead; a comparison of our weapons with those of the enemy; a full field demonstration of the characteristics of all weapons and ammunition; an expert and detailed analysis of the technique of expert firing; a full demonstration of expert firing over all courses to be fired; a discussion of "pressure" shooting or the effects of emotion upon marksmanship (related to combat anxiety). Every effort is made to arouse or intensify the interest of the trainee and to convince him that he can become a good shot and a "pressure" or combat marksman. No hokum is indulged in; just a careful evaluation of the various problems and of the human realities. Our shooter leaves for the second, or "dry-firing" section with a lot of inspiration and information, but still lacking in personal skill.

We all figure that the place our trainees really learn to shoot is on the dry-firing range and we extend ourselves to do a fine job there. Most of our instruction is carried out on a hexagonal firing line which surrounds a turntable demonstration platform (see photo). Many of our best coaches are gathered here, all men who are especially observant, patient and resourceful. In four half-days they do an outstanding job of teaching basic shooting form. Six training films are shown during this period.

We regard ourselves as most fortunate in having ample

.22 facilities and we get 'most everyone off to a good start by qualifying practically all hands on the .22 range. Also we are able to use the .22 range for screening out problem shooters and giving them special attention. We have one trouble-shooter instructor on this (and each other) range who does nothing but work on problem shooters. In many cases he works closely with the Medical Department.

Our medical problems fall into three main groups: men with serious eye trouble; others with bone and joint disabilities; and those with emotional or mental disturbances. With full medical co-operation we work out a solution to a lot of these problems. In other cases our reports to the Medical Department contribute toward the man's eventual discharge from the Service. We feel that the work of our trouble-shooter instructors in seeking Medical Department co-operation has been a novel and valuable procedure.

Our trouble-shooter coaches have authority to send trainees back for more dry firing if it is needed and if time permits. This helps pull some doubtful qualifiers over the line. It doesn't have to be done very often.

The .22 caliber firing is popular with trainees and helps get them steamed up about marksmanship. They like their qualification badges, too, and we issue them immediately upon the graduation of each class.

Our fourth section of work consists of firing the Springfield —four half-days, forty shots each day. We have a model range, smoothly operated, and it is hard to believe that our results could be as good as they actually are. These results rest above all else upon fine preliminary work and diligent, skillful coaching by our non-coms on the firing line.

Within my lifetime I have witnessed the dissipation of a lot of old-time superstitious hocus-pocus about marksmanship skill and am proud to think that I have contributed something personally to the structure of our present scientific concepts of instruction. But for my money there will never be any substitute for skillful, attentive personal coaching of the individual shooter as the one sound way to make a marksman. That's the way we are doing it here, along with taking full advantage of every new training aid and instructional device.

It should be noted that a considerable factor in our fine qualification record involves the principle of having our shooters use the same weapon each time they fire. Also we are very particular to provide good trigger pulls and to keep our weapons in fine mechanical condition so that the shooter is not discouraged by troubles which are not his fault.

While our trainees are undergoing training with the Springfield we give them a course in the principles of camouflage and concealment, a military subject which air reconnaissance has rendered more important now than in any previous conflict.

The fifth and last section of our work concerns two automatic weapons—the M1 Carbine and the Thompson Sub-machine Gun. The Thompson receives only one half-day's attention. We work hard on the Carbine, which is our principal ATC weapon, putting in two half-days of dry firing mixed with three days of actual firing. The details of our experiences with the Carbine were covered in an article appearing in the November, 1943, issue of the RIFLEMAN. We have little to add to that discussion except that, as then predicted, we now have our Carbine qualifications well above 90%.

Yes, we are doing a heartening job out here and don't let anyone tell you our trainees fail to appreciate it. They eat it up and constantly refer to their work with us as the brightest spot in their preparation for grim days ahead. It is a daily pleasure to pass over to them that "best heritage" which is the spirit and the skill of the old NRA rifleman.

And just one more little item. We at Camp Luna are operating on the site of the old New Mexico National Guard Rifle Range. The boys who used to call this mountain mesa their shooting home are now dead at Bataan or prisoners of the Japs in the Philippines. We like to think about the time when our Luna boys will be flying the gallant survivors back home again. We think, too, of the day these men of Bataan will once more have fun getting ready for Perry on the new ranges we have built with them always in our thoughts and hearts.

The chief instructor presides from the central platform while trained coaches check each individual on the hexagonal "dry firing" range.

General Vandegrift Takes Over

GENERAL ALEXANDER A. VANDEGRIFT became the eighteenth Commandant of the U. S. Marine Corps when he relieved retiring General Thomas Holcomb recently. In a special statement to THE AMERICAN RIFLEMAN General Vandegrift stressed the importance of the rifle in modern combat.

"The rifle," he said, "is the basic weapon of the Marine Corps. Proficiency with the rifle has long been a tradition which every officer and man of the Corps has upheld. This is more than a matter of organizational pride; the ability of the Marine to outshoot the enemy with his ever-present rifle has won many desperate battles, and will win many more.

"In these days when the phrase 'planes, tanks and guns' places the apparent emphasis on the larger weapons of modern warfare, we should not lose sight of the fact that it is the man on the ground, armed with rifle and bayonet, who eventually takes and holds the objective. The American people should realize that the rifle is still one of our foremost weapons of victory."

There is no one better qualified than General Vandegrift to comment on the importance of the rifle in the hands of the trained rifleman. At fifty-six General Vandegrift is a thoroughly experienced military man, and his activities in command of the landings and operations on Guadalcanal and adjacent islands against the Japanese have proven him to be a field commander of great ability. For these services he was awarded the Congressional Medal of Honor, the Navy Cross, and the Presidential Unit Citation Ribbon with Star.

Although disparaged by politicians during the past decade, American tradition was fully recognized when the General took over. Following formality which was initiated in 1801, the General was serenaded with martial music by the Marine Corps band at his home. Captain William Santelman led the band in the playing of the Marine hymn and then a new march bearing his name. "Dixie" followed in deference to the General's home in the "Old Dominion." Then Captain Santelman toasted the General with the hot buttered rum. The entire band then filed in and followed suit.

On his retirement after forty-three years of service, General Holcomb was promoted to full General, the first four star General in the history of the Marine Corps. Though retired, he is to be retained in active duty and will be given an "important assignment" by the President.

To rifleman General Holcomb, success in your new assignment. To rifleman General Vandegrift, from riflemen everywhere, in the language of the rifleman, may all your shots be "possibles."

Training Device for Machine Gunners

By LT. COL. CHARLES H. MOORE

ONE OF THE MOST DIFFICULT PROBLEMS in training machine gunners is that of teaching proper gun manipulation. Range facilities and ample supplies of service ammunition are not always readily available for actual firing; even the .22 caliber machine gun using the Long Rifle cartridge must be fired on a proper range; and dry firing over long periods becomes tiresome.

The device illustrated here can be used safely indoors or outdoors, with minimum range facilities, and provides a most effective means of teaching proper handling of the gun.

The pistol used here is a commercial Hi-Standard .22 automatic chambered for the .22 Short. The cartridges used are low velocity .22 short hollow-point with a small explosive matchhead loaded into the hollow point; a cartridge manufactured several years ago by Winchester for stage exhibition shooting and loaded by Winchester for this use. The bullet explodes on impact, blowing up completely so that there is no danger from ricochets.

The pistol is attached to the machine gun water jacket by means of an adjustable bracket so that the point of impact of the .22 bullet can be made to coincide with the line of sight on the machine gun at any given range. The trigger attachment is made with stiff wire running back through the pintle of the tripod to emerge beside the trigger of the machine gun.

The target used is a steel plate four by five feet and about one-eighth-inch in thickness, mounted on rollers. Target is placed 1000 inches from the gun. The explosion of the .22 caliber bullet is quite visible from the gun, and the hole blown in the pasted-on paper target approximates the beaten zone.

The usual landscape target so used gives excellent training in fire orders and fire distribution. Indirect laying can be taught by placing a cloth-covered target screen about half way to the target.

Safety is provided by making a small clearance block of wood with two small sticks projecting from each side, topped with a small red flag. At the command, "Clear Gun," the Number Two of the gun crew pulls back the breech block of the pistol and places the block in the action so as to hold the pistol open.

By placing the gun in proper mount and using a target made of a steel plate slung on a cable, with plane silhouettes painted on the plate, gunners can be trained for antiaircraft fire. The strike on the target is immediately evident and the gunner can correct accordingly. The plate can be towed at varying speeds in accordance with the proficiency of the gunner.

JOHN SEVIER'S RIFLEMEN

By FRANCIS E. SELL

"THE WIND AND FIRE fight for the great Eagle of the pale-faces. We can no longer contend against him. From his high station in the clouds he sees our exposed places, and when he swoops down, his hot breath consumes our crops and wigwams. His flight is like the wind. His blow is like the thunderbolt. . . ."

John Watts, War Chief of the Cherokees, was completely bewildered by the rapidity of John Sevier's movements. He was confounded by the power of his blows.

There is little wonder that the Indians felt that Sevier possessed supernatural powers. He was an honest foe who fought the Indians their own way, but he beat them at their own game—with tricks of his own invention. It was these tricks that caused them to believe that he was guided by the Great Spirit.

School histories to the contrary, there were few instances of frontier fighters inflicting greater loss on woods Indians than they received themselves. No *regular* army sent against them ever did. Boone's men were soundly whipped at the Battle of Blue Licks. St. Clair's army was slaughtered. Through generations the Indians had perfected the art of woods fighting and they had a decided advantage over their white foemen. They moved like ghosts through the forests. They struck relentlessly, mercilessly, then disappeared into the wilderness with their prisoners and their plunder.

Armies, encumbered with baggage and supply trains, plodding at eight miles a day, were helpless in the forests. But not so John Sevier. Modern armies fighting in North Africa, Sicily, Italy, Guadalcanal, New Britain, or New Guinea, rely for success on rapidity of movement and accurate fire power. These were the keystones of Sevier's tactics. His equipment was far more primitive than that of our modern armies. He had no tanks, no armored cars, no automatic weapons. But his mounted riflemen, riding hard and shooting true, were one jump ahead of their red adversaries at every turn.

Sevier was born in 1745 and he led his riflemen at King's Mountain. But his fame as a leader of frontiersmen rests more on his ability in forest warfare against the Indians than in helping to defeat Ferguson. Actually, King's Mountain was but a setup for riflemen used to fighting the Cherokees, Chickamaugas, and the Creeks. Sevier was probably the only one of

the frontier leaders who, during his many campaigns against the Indians, consistently inflicted greater loss than he sustained.

The equipment of this frontier army, if it can be called an army, was primitive indeed. There was no company or regimental organization. There wasn't a blanket or a bayonet in the entire outfit. Their problem of supply was simple. They carried a wallet of corn on the saddle but for the most part their long rifles supplied them with food on the march. The tough, sure-footed mountain horse was their transportation.

Their personal weapons were, of course, the knife, the hatchet, and the long-barreled flintlock rifle. And while this rifle was long and heavy, and with relatively crude sighting equipment, its accuracy has never been excelled within its range limitations. These old rifles approximated our M-1 Carbine in killing power but they were far more accurate, especially at ranges beyond sixty-five or seventy yards.

They were essentially short-range weapons but were able on occasion and in good hands to reach out surprisingly and find their redskin or redcoat targets. At the Battle of Cowpens a British officer was killed at three hundred yards. It is recorded that frontier riflemen attached to Washington's army during the Revolution picked off British naval officers on their ships anchored in one of our harbors at between three and four hundred yards. Even today such shooting is good.

His campaign against the Cherokees in the South, the best fighters among the woods Indians, was typical of Sevier's style. These tribes were shielded from the white settlements by a vast, trackless wilderness and high mountain chains. From this stronghold their raiding parties constantly harried the settlers. No one was ever safe. The settler was killed as he painfully tilled his small clearing. He was waylaid en route to the trading post. Swift-striking warriors drove off his horses and slaughtered his cows and pigs. They murdered his wife and children, burned his barns, his crops, his home.

But the American frontiersman was not one to submit to these indignities, any more than his modern progeny submits to similar murderous activities of the Japanese and Nazi hordes.

Sevier gathered his band and went into action against these marauders. At the head of 150 mounted riflemen, he surmounted the almost impassable barrier of the Great Smoky Mountains and closed in on the Indians. His carefully selected scouts constantly dogged the footsteps of the warrior bands and kept him always informed of the numbers and activities of the foe. In this way he was often able to intercept the raiders on their way to the settlements.

Moving swiftly on their horses, the men of Sevier dismounted and delivered quick paralyzing blows. Before the Indians recovered these fast moving fighters were out of their reach. The Cherokees frequently could have overwhelmed Sevier's small band of riflemen by sheer weight of numbers. But the uncanny ability of this frontier leader to understand and utilize the advantage of surprise to keep his red enemies off balance, prevented them from ever bringing their full strength against him.

Sevier was very particular about his scouts. They were all hand-picked men, tempered in the heat of frontier fighting. Never was his band surprised by the Indians. Never was it led into a trap or ambuscade.

When organized for attack the band moved forward through the woods at a gallop, scouts well ahead and on each flank. At a safe distance they dismounted and crept quickly and noiselessly on their victims. Fighting in open order, Indian fashion, taking advantage of every bit of available cover, they swarmed in on the Indians, taunting them with insults throughout the fight. They drew their fire with a great variety of subterfuges and inventions. A coonskin cap shoved around a tree on a ramrod would tempt an incautious Indian, stung by the insults, to expose himself momentarily to deliver a shot. The inevitable result was a quick and painless ticket to the Happy Hunting Grounds. No quarter was asked, none given in these fights. They played for keeps. The sharp whiplike crack of their beloved Kentucky rifles, Sneezing Sue, Sally Anne, or Old Soup Bone, was music to the ears of these riflemen and doom for the redmen. Knife and hatchet were applied by both sides with equal effectiveness because this was close-in fighting, the kind of battle our men are giving the Japs in the South Sea Isles to the dismay and confusion of the latter.

But Sevier never pushed his luck. He withdrew his small band quickly after the first devastating onslaught and before the larger bands of the Indians could organize against him. Thus he kept his men together, intact and prepared to deliver another slashing blow on the morrow. "He who fights and runs away, lives to fight another day," might well have been the slogan of these terrific men of our early frontiers. Today in all theaters of world battle the descendants of these men, our Marine Raiders, our Rangers, Paratroopers, and Commandos, are using the same basic tactics.

Many of the frontiersmen were equal to or better than the Indian in

individual combat. They were all more deadly with the long rifle. Many of them could match the best of the redskins in woodcraft and go them one better. Among these especially were Boone, Wetzel, Brady, McCullough, and Mansker. So confident were these men of Sevier's command that they disdained posting sentries about their encampments. They depended on each individual to detect danger from any source. Their keen, woods-trained senses never failed them.

The individual exploits of these frontier riflemen still thrill us. Three of Sevier's scouts were once camped on a small stream. They were roasting venison over a small fire while awaiting the arrival of the rest of their band. A turkey yelped suddenly in the heavily wooded draw across the stream. The scouts froze and listened intently as the turkey ran through his "small talk." The scouts exchanged glances and then without a word two of them slipped into the woods with their rifles. One made directly for the foot of the draw; the other kept to the open ridges, circling to come into the draw from above. After gaining the crest of the ridge he moved noiselessly toward the "turkey." Meanwhile his partner approached from below, his progress marked by an occasional snap of a broken twig. The rifleman moving in from above came within thirty yards of the "turkey" before locating it. He finally discovered that the sound was coming from behind a windfall across the draw. Then, watching closely, he saw the Indian's head peering cautiously in the direction of the rifleman making the noise in the brush below. A well placed shot took care of the "turkey."

That redskin hadn't fooled these woodsmen. They knew their woodcraft. Many frontiersmen less skilled in Indian lore and woodcraft would have fallen for this ruse. But the keen ears of these men had detected the fraudulent nature of the turkey talk. They were immediately suspicious, so while one acted as the decoy, as a clumsy woodsman stalking the turkey, the other stalked the Indian.

Another time one of Sevier's men was jumped by two Indians. All three "treed." Then while one of the Indians remained where he was to keep the scout pinned down, the other began to circle cautiously for a flanking shot. The scout was really on a spot. If he were able to get in a telling shot and knock off one of the Indians, he would then have to confront the other with an empty rifle.

To circumvent this little maneuver, the rifleman quietly lay down in the brush at the base of his tree, watching closely for some movement behind him. Shortly he saw the Indian moving in for the kill. Freezing to the ground, the scout watched that Indian creep up to within forty feet of where he lay. But the Indian still could not locate his quarry. Carefully he closed the distance to twenty feet, directly behind the tree where the rifleman waited.

Then as the Indian cautiously moved out, searching the thick underbrush for the rifleman, Sevier's man fired. The Indian fell dead with the loaded rifle still in his hands. The scout then leaped on the fallen brave, seized his loaded rifle and sounded the Cherokee war cry. At this signal of victory and success, the other warrior moved out of his cover and came quickly through the brush only to fall victim to his partner's rifle. He fell dead at the foot of the tree where the rifleman had first taken cover.

The history of our colonial frontier is made up of such small episodes. Many have been recorded, many more have been lost. Unfortunately even the names of most of these *distinguished riflemen* have been lost with the stories of their doings. But, handling the long rifles they have left to us, it is easier to picture and to understand the kind of men these were. These rifles, and the country that produced the men and the rifles, stand as a living monument to those early Americans. These and the tradition of straight shooting!

They fought a bitter, relentless, personal war. They won it. They shot it out with one accurately placed shot after another from their long-barreled rifles. It is well for us to remember this today. We have an equally bitter, relentless, personal war to fight. They fought for and won a continent. We have to fight for and win—a world.

The Buffalo Sharps

(Continued from page 6)

Work it out for the .50-170-700 and .45-120-550 and you get 150 and 117-plus pounds-feet respectively. After many years experience, I believe that a cartridge must have at least eighty pounds-feet of energy for elk, moose, and big bear shooting. The .300 Magnum and .30 Newton with 220- or 225-grain bullets at slightly over 2,700 feet are the only two .30 calibers that come up to this standard.

I have come to the conclusion that those old buffalo runners knew even then far more about what is necessary to certainly kill our larger species with one shot than any of us are ever likely to learn in these days of small-bore high-velocity rifles. If my life depended on just one shot from an American-made rifle and cartridge on a big Alaskan brownie at 100 yards or less, I would choose the big .50-170-700 or the .45-120-550 Sharps for that shot in preference to anything since manufactured. I know it will rake him from stem to stern and leave a darned big wound channel all the way, to say nothing of really having some shock or wallop when it hits!

Many lighter side-hammer Sharps, weighing from nine to eleven pounds were made for the special long-range .45-120-550 and .40-90-370 loads, and also for the .44-105-520 Creedmoor load. After the buffalo were killed off these were used a great deal as hunting arms for all our big game, and mighty fine hunting rifles they were! In good condition, they are still deadly and accurate weapons, typical of the most famous rifle on the plains from the late 60's to the early 80's. My .45-100-550 won thirty-four turkeys for me one winter in Montana. This was mostly 200-yard rest shooting against Springfields, Krags, and just about all types of hunting rifles, as well as some .32-40 target arms.

They were meat-getters, those old rifles! For that matter, they still are! I still use mine, and so do other old-timers.

Fundamentals of Gunstock Design

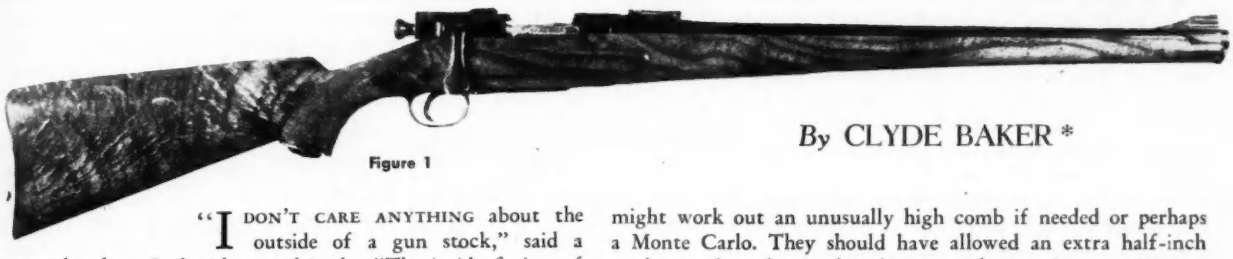


Figure 1

By CLYDE BAKER *

"I DON'T CARE ANYTHING about the outside of a gun stock," said a gunsmith whom I cherish as a friend. "The inside fitting of barrel and action is what counts with me!"

After studying some of his stocks, I think I understand what he meant.

Inletting with accuracy is highly important. It is purely a matter of mechanics—slow and careful, meticulously accurate scraping, cutting, and spotting of wood to metal. Accurate bedding of barrel and action is particularly important in target arms, but scarcely less important in field guns. Comfortable fit and attractive design are not less important to the gunmaker who desires to be classed as a leader in the trade . . . but in this phase of gunmaking, "many are called, but few are chosen."

As the sculptor sees an angel or a Venus in a block of rough marble, so must the stocker see a finished stock of perfect fit, beauty, and symmetry in the rough blank. He knows that such a stock lies beneath the surface. He merely removes the excess wood, and there it is in all its glory!

So many so-called "professional" gunsmiths and ambitious amateurs have taken too much for granted when using ready-routed and rough-turned blanks that I feel there are a lot of things which need clearing up. Many stocks I have seen produced from these ready-machined blanks are really not stocks at all—they are merely *stock blanks* which have had the router marks filed and sanded off, and have been oil finished. They are clubby, heavy, awkward to handle, with grip needlessly long and thick. They have a lot of unsightly, excess wood in various places. This is the result of two things—first, the necessity on the part of the stock blank manufacturer to leave sufficient material at all points for the stockmaker to exercise his ability in the matter of design; second, lacking this ability, the unskilled worker is timid about removing much wood at any point. The result is unfortunate.

One stock blank manufacturer, in generously trying to give the stockmaker plenty of leeway for good design, also gave too much walnut to the chap who didn't know what to do with it. On the other hand, we have another's blanks which at first glance appear to approximate pretty well the ideal in design. But the experienced stocker, "making off" a stock from such a blank, finds himself a bit too close to the minimum for comfort at several points. They should have allowed a half-inch more wood along the top of the buttstock, so that one might work out an unusually high comb if needed or perhaps a Monte Carlo. They should have allowed an extra half-inch at front edge of grip for the man who requires a grip very close to the guard. They should have carried the comb at least one-third inch further forward, and made the butt a full half-inch deeper at the toe—this to give the worker needed leeway in the matter of heel drop. Despite these faults I have been able to work out some very well-shaped, sporter stocks from these blanks though they differ greatly at many points from the original shape of the blank. This is particularly true of grip curve and length, shape along bottom edge, and shape of cheekpiece.

However, even in the cheapest, plainest grained of these blanks, the wood has been of excellent quality—firm and sound, close grained with grain running correctly at grip—the kind of wood that takes a nice job of checkering and a good oil finish with a minimum of labor. For such stock wood, one can readily forgive a few minor faults.

Figure 2. This shape comb, found on finest shotguns, adds to the beauty of any stock.

One manufacturer's blanks have proved justly popular for the sheer beauty and quality of the fine walnut with its deep rich color and fine figure. They have been much in demand. So much so, in fact, that in some instances I have found some of them insufficiently dried. The remodeled 63 Winchester shown in Figure 4 is a shining example. The first fore end I made split open lengthwise after being finished, oiled, and checked. I had to make another—and making a fore end for a 63 is quite a chore! The stock appeared to be well dried, but when drilling the hole for the magazine tube the chips came out very damp and smelly. The tube rusted tightly into the stock while it was being shaped, necessitating its removal to a warm place for three weeks' additional drying. (You impatient customers who think your gunmaker is slower than the coming of Judgment Day, kindly note some of the things he has

* Published posthumously.

to contend with.) It is a sound precautionary measure to buy your stock blanks in excess of immediate needs and store them in a warm, dry place for weeks or months before using.

Speaking of routing, the blanks of a certain manufacturer I have used have had better inside routing than those of others. It was a bit more accurately done, and a bit closer to final dimensions. This means labor saved by the stockmaker. On one blank for a Krag, the upper work was beautifully done, while the trigger guard mortise on the underside was a full one-sixteenth inch out of line at one end.

None of the machine inletting of gun stocks I've found has been comparable with that on standard factory stocks of Winchester, Remington, and Savage. Winchester's work, in particular, approaches perfection. Study the inside of a Model 70 stock or a 52; you'll probably find no hand-chisel work at any point, yet it fits the action beautifully. Winchester's inletting is far superior to that of Springfield Armory —I say that after having recently handled some thousands of Springfield rifle stocks dating variously from 1905 to 1942! If Winchester can jig up a copying router to do this kind of work, so can the larger stock blank manufacturers.

The very best stock lumber I've ever found comes in the plain, un-inletted blanks of Mitchel Bosley & Company, Birmingham, England. I've paid from $2 to $35 each for sporter blanks. In every instance got MORE than value received. In my opinion nothing finer in gunstock material was ever grown than the French walnut they supply. It is hard, dense, tight-grained, cuts, checkers, and finishes perfectly. Unlike our American walnut, this wood gets its beautiful figure from streaks and waves of coloration and *not* from the gnarled and uneven formation of grain. The most gorgeously figured stock I ever made was on a featherweight Springfield sporter for Donald S. Hopkins, of Lockhaven, Pennsylvania. It was made from a specially selected Mitchel Bosley blank costing $35. It had curl, wave, streak, and mottle—and the richest coloring imaginable; yet the grain itself was so straight that one might have split the blank into arrows.

The gunmaker who has access to a supply of sound, well-dried walnut lumber can do well for himself by buying up a few planks and slabs now and then, storing them for additional curing. If possible have them run through a kiln and then sawed into blanks in any shop possessed of a large bandsaw. Choose lumber not less than two and a half inches thick in the rough, and have both sides run through a surfacer to show the grain before sawing. Make an "openface" pattern of thin plywood or heavy cardboard. This will enable you to lay it on the wood so as to see that the grain is running right at the grip. Make this pattern of such shape as may be depended upon to give you ample wood at all points for any kind of sporter stock you'll ever want. You can always cut away, but you can't add wood.

Speaking of stock woods, there are two others to be considered—the Oregon "myrtle" frequently advertised in THE RIFLEMAN; and, what I like much better, a so-called Oregon bird's-eye maple. This is unquestionably the most beautiful wood I've ever laid eyes on. In the blank, this maple has a decidedly pinkish cast. But when oiled it takes on a rich medium brownish color, lighter than American walnut, but comparable in shade with the best Circassian. It is wholly unlike the nearly white eastern maple. The figure is something to write home about, a dazzling agglomerate of bird's-eyes and rosebuds on a background of fine old lace!

Any of the myrtle dealers in Washington or Oregon should be able to provide it. Myrtle, too, is a truly fine wood, and very much of a hobby in the northwestern states. Personally, despite its fine figure, I think the predominating color (something of an olive green) seems ungunlike. But this is purely a matter of personal taste, of course.

Figure 3. Comb runs down, then out in graceful swell forward to blend with grip.

This red Oregon bird's-eye maple, also the fancier figured myrtle, needs special attention in the matter of finishing. The grain, of course, runs "every which way" and chisel work will have to be done across the grain, and with razor-sharp tools to avoid splitting. Use only rasp and file for shaping. The plane and drawknife are definitely OUT. For finishing both these woods, apply several coats of *boiled* linseed oil, deeply colored with alkanet root, or a dark red oil-soluble analine. Give them, at least, three coats, applied on successive days and well rubbed in by hand. Then dry them for at least two weeks.

Now remove all the oil from the surface by light, fine sanding, and apply a good commercial wood filler, of a mahogany color. Two or more coats may be needed to fill the very open grain. Sand this off thoroughly and when you have a smooth, well-filled, nonporous surface, finish in the usual manner by rubbing in several more coats of the red oil, stiffened with Japan drier, one part drier to three parts oil. Don't rush the finish on such wood—*TAKE YOUR TIME.*

A top-grade sporter stock of either of these woods (particularly the maple) with de luxe checkering and proper finish is easily a $100 job for any man's money.

Stock design and materials are nearly inseparable. Design, in gunstocks or riding boots, is largely a matter of preference, but this is somewhat a matter of education. When some chap proudly breaks out a thick, clumsy paddle of a stock which he assures you fits and handles perfectly, but which you privately reflect would be better for driving fence posts than as a handle for a fine rifle, don't beat him to death for his ignorance. Time and experience will mellow and improve his taste, and his knowledge of what is really needed in a fine stock.

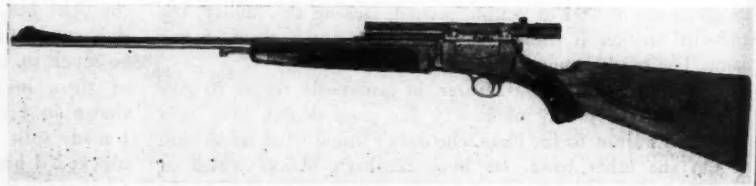


Figure 4. Making fore end for Winchester 63 is a chore. This one had to be made twice.

Place in the hands of the shooter (or stocker) of limited experience, a rifle stocked in the best manner by Griffin & Howe, Bob Owens, or one of Sedgley's best; a Model 70 Winchester; a stock along the general lines I worked out and

explained in "Modern Gunsmithing" fifteen years ago; a stock such as Crossman endorses in his splendid "Book of the Springfield," and the type Whelen has endorsed so very often; I say, place such a stock on a proper rifle in the hands of a man who thinks he likes a boat paddle or a post maul for a stock, and he will very quickly change his mind. I have noticed that the farther a man goes in the shooting game, the more conservative he becomes in the matter of stock design. He avoids extremes in his stocks, as a business man avoids extremes in his dress. In the final analysis, most of us want a sporting arm which we can handle like a cute little cuddle-bug—*not* something which may make us feel like the circus Midget who married the Fat Lady, only to find that he had to chalk his stopping place and move on around, to complete a husbandly hug!

Going to the other extreme, we have such fine, but misstocked arms, as the Mannlicher-Schoenauer, whose stocking style has been frequently copied, and frequently improved upon. The general idea is swell but here are the faults: the buttplate is nearly ideal in shape—but the toe of the butt is too long. There is too little down pitch; the pistol grip is too far back—practically useless for gripping purposes. The bottom of the grip is practically parallel with the bore—a sad mistake! This line should form about a right angle with the front edge of the grip at this point. The grip is too small and too flat from side to side. Sedgley's version of the Mannlicher style stock has a much better, well-rounded grip. The comb is too thin, and much too far back to be of any use in supporting the base of the thumb and give the shooter a comfortable handful. As Ned Crossman has pointed out, a stock's comb is seldom used for shaving, hence need not be razor edged. The cheekpiece is much too straight along the bottom edge, and MUCH too thin, both fore and aft. It does not serve the purpose of a cheekpiece, but is ornamental rather than utilitarian. (See cheekpiece and comb on Model 63 Winchester, Figure 4; note the curve of the grip and the angle formed by the bottom line.)

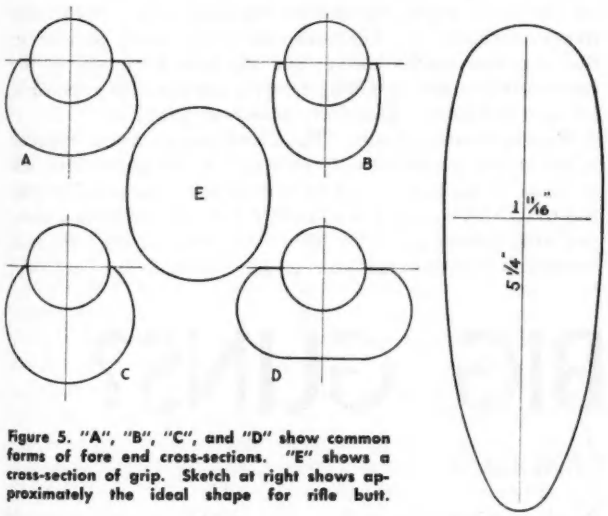


Figure 5. "A", "B", "C", and "D" show common forms of fore end cross-sections. "E" shows a cross-section of grip. Sketch at right shows approximately the ideal shape for rifle butt.

Still criticizing the lovable Mannlicher-Schoenauer carbine, the fore end is very well designed, but it would be better if run in a more nearly straight line—less hollowed—from forward guard tang to muzzle cap. Sedgley's job is better in this respect also. The fore end is also a bit thin from side to side. It should be slightly wider where the left hand grips it, and a bit flatter on the bottom. BUT I do not advocate a square, blocky, exaggerated beavertail fore end on a hunting arm. Streamlining, within reasonable limits, is the order of the day. Figure 1 shows an excellent Mannlicher stock with most, if not all, of the usual faults corrected.

The old rough-and-ready method for measuring stock length was to hook the forefinger about the trigger; then, if the butt rested snugly in the crook of the bent elbow, the stock length was regarded as all right. Generally speaking, I'll say, add three-eighths of an inch to this length, and you'll be correct for a modern arm with some recoil. If you have a bolt action gun with the military double pull, take this measurement with the trigger in the rearmost position—trigger slack taken up. The pull really starts from there.

A self-styled "expert" of my acquaintance stoutly maintains that the position of trigger is not important as a starting point for measuring stock length. He claims that stock length should be measured from the grip which, as he asserts, locates the position of the firing hand. True, it does. But when I inquired from what point on the pistol grip he would take this measurement, he spluttered out, "W-w-why, you'll j-just have to f-f-fix an arbitrary point." To which I replied, in a thin, small voice, "Horsefeathers." I'll still take my length measurement from the center of the trigger to the center of the buttplate because, no matter what the shape or position of the pistol grip, or no matter whether there is a pistol grip or not, *the center of the trigger is the one place you must reach.* Thirteen and three-eighths inches on this measurement will fit 90 per cent of shooters as if the gun were made to their order. The other 10 per cent won't vary more than a quarter-inch shorter or a half-inch longer. Frankly, you could stock all your low-power jobs, thirteen and one-eighth inches and all your high-power jobs thirteen and five-eighths inches long, and establish an enviable reputation for fitting everybody as to length. See Figure 7.

The same "expert" claims that stock drop should be measured only from center of bore, and not from line of sight, pointing out that on most factory stocks the drop from the upper edge of the fore end (projected backward) to top of comb, is exactly one inch. Again, "Horsefeathers!" The line-of-bore drop measurement, while possibly ideal for mass production on purely military arms, is a useless thing on custom jobs where various types of sights, both iron and scope, may be used and where nothing may be standardized.

"Drop" on a rifle is really the vertical distance from the pupil of the aiming eye to where the cheekbone rests easily and comfortably on the comb. What, then, does the axis of bore have to do with the matter?

On many arms, the line of aim is necessarily much higher than on others. The shooter is interested in but one thing—whether or not he can toss the rifle to his shoulder, cheek the stock naturally and comfortably, and look through the sights. I have the customer close both eyes, bring the arm quickly to his shoulder, then open his eyes and see whether or not the sights are aligned without moving his face on the stock. If they are, I then cut down the comb a good one-sixteenth inch *lower* . . . . for experience has shown that a man trying out a new stock will invariably cheek the comb a lot more tightly than he will when shooting at game. On a high-power rifle or a shotgun, too close a fit of comb to cheekbone *(Continued on page 34)*

WHY THE BIG GUNS?

By BILL McCANDLASS

THE PLACE—a wide, deep, craggy, walled canyon in the high Sierra Nevada Mountains of California. The hunter—a shipyard mechanic who, after months of driving work, is awarded a week off. He has hunted steadily all week, without a shot. Today is the final day and so far it, too, has been a blank. Seated there on the rim of that canyon he waits, resting. And now, at last, the Red Gods smile.

A big blacktail buck comes suddenly into his view, swinging along the far side of the canyon, stopping abruptly in a thin thicket where a down log lies. The buck blends into that background and is no longer visible to the naked eye; but across the hunter's knee is a Model 70 Winchester, .270 caliber, with a Lyman Alaskan hunting scope, and through this scope the hunter finds the buck again.

It is a long shot. Three hundred yards? Well, distances are tricky in the high mountains, especially across one of the big canyons. Call it nearer 400 yards. The buck has stopped behind that down log and only the upper third of its body shows through the scope. But the hunter knows his gun and what it will do. He settles down for careful shot. This is it! Either a clean miss or a virtually sure kill. The hunter judges how far he should hold over. Not much, but some. He squeezes the trigger—and the 130-grain slug lands with a telltale thump. The buck goes down, dropped in its tracks. Its spine is smashed.

This is a true story, not fiction. And it is one answer to the "thutty-thutty" boys as to the why of the big gun. In the case above, the element of luck was very small indeed. The hunter had the equipment and the skill and the knowledge of his gun's possibilities to make a deliberately calculated shot.

I well remember my own conversion to the ranks of the big-gun adherents. It was after I saw a little eighty-pound coastal blacktail buck sop up four shots from a .25-35 and keep right on skedaddling. How do I know he had four .25-35 slugs in him? I counted them after the dogs had bayed him in the bottom of a canyon a good half mile distant and held him there until one of the boys could slip up and finish him.

That was a dirty business. I definitely don't like that sort of thing. No big game animal ever harmed me in any way. I hunt 'em—well, for the same reason most sportsmen do: because there is something in us, some throwback to the days of savagery, which sends us out. Not all of it is a desire to kill. A lot of it is the spell of the open places, of dawn stealing over the rim of the world, the smell of wood smoke at twilight, and things of that sort. The actual hunting is only part of it. But that part entails killing; and the least I can do, in my opinion, is to make my killing as swift and merciful as possible. I'll do it if I have to pack forty pounds of gun!

Human nature is funny. These same gents who are appalled at the idea of a man carrying a .300 or .375 Magnum after elk or moose or big bear, would no doubt commit hara-kiri if they had to go back to riding in a Model T Ford, instead of in a sleek, powerful modern car. Yet they insist that an old-fashioned, outmoded, low-powered gun is good enough for anybody! Maybe that is because, in the case of the car, *their* feelings would be hurt, while in the case of the gun it is only an animal that suffers. And who gives a damn about that? Well, I do!

Maybe the years are making me sentimental. Or maybe those same years of experience have taught me a few things. Or maybe it is a combination of both. At any rate, with scores and scores of deer to my credit and having used just about every caliber and kind of gun down through the years, I find myself now carrying a modern .270 rifle and I'll defend the use of it in preference to pip-squeak guns to my last breath.

I've never had the privilege of hunting elk or moose. I hope to, some day. When and if I do, I won't be carrying the .270. I figure the .270 just about the perfect gun for anything up to and including the big mule deer. Beyond that—I'll take the .375 Magnum.

Which doesn't mean that the .270 won't kill an elk or moose. It definitely will and has. But the ordinary hunter, the guy who buys those millions of licenses every year—he has to take his

shots as he finds them if he wants something to show for the hunt. He is a virtual cinch to bump into one of those quartering shots where the bullet has to punch through the heaviest bone and muscle to get into the vitals for a reasonably quick kill. In such a case, the .270 might fail. The big .375 Magnum would not. So, when the above conditions arise for McCandlass, he'll be shooting the big Magnum.

Too, there is the satisfaction of going afield for your favorite sport with high-class equipment in your hands. Ever fish for trout? I have, a lot. My pet outfit, rod, reel and double-tapered line, set me back close to seventy-five bucks. But, oh man! the fun of landing a creel full of speckled beauties with that sweet outfit! Maybe I could catch just as many on a dollar-ninety-five layout, but the fun wouldn't be there.

So it is with a gun. The modern American sporting rifle in one of the latest and most advanced calibers is a grand weapon, an instrument of precision and efficiency. Dressed up with the proper sighting equipment and in the hands of a reasonably proficient shot, it is capable of sure hitting and clean killing at distances and under circumstances which would make the outmoded calibers virtually useless.

There is no use going into a lot of ballistic data, but it might be well to mention this one paramount fact. You kill game out where it stands or runs; not at the gun-muzzle. That is a big argument for the use of the more powerful guns; because, for the average hunter, the game stands (or runs) at ranges beyond the average hunter's ability to make sure kills with the lighter weapons. (Do I hear somebody say that a real woodsman and sport crawls up on 'em until he can see the whites of their eyes? Hogwash! Your average hunter would never get game if he had to creep up on 'em. He takes his shots as he finds them, or he doesn't get any shooting!)

Sure, there are men who are proficient at stalking. There are also trappers, guides, and other professional woodsmen who annually see so much game that they can pick their shots, passing up anything that is a little far or difficult, knowing that somewhere along the trail they'll bump into an easy, sure one. But your average hunter has only a week or two of hunting in which to hang up a trophy. He can't be too choosey, or he may not get a shot at all. A trapper or guide may carry a lower-powered gun and get lots of game with it. But that does not prove that such a gun is ideal for the average hunter. Not by a jugful, it doesn't.

The argument that the ordinary hunter won't be able to shoot straight with a heavy gun because of its recoil is also bunk. Recoil is a bugaboo which worries too many too much. For several years I shot a 10 gauge Ithaca double shotgun, known in the trade as the Super Ten. I used it for ducks. That gun had plenty of come-back. I found that out when I was patterning it at different ranges. Yet I swear that never once, when actually using it on game, did I notice the recoil at all! So it is with the big rifles when you are looking down the sights at a big old buck. You never feel the recoil. A flincher is a flincher and you don't cure him by giving him a pip-squeak gun. You cure flinching by the use of a little mind over matter. It disgusts me to hear a full-grown man whine about a little recoil. I've seen slightly built women unconcernedly rapping out bull's-eyes with a .30-'06 and never a word about recoil.

Because the average hunter hasn't the time in the woods to limit his shots to those where sure kills can be made with a light gun—because he won't limit his shots, but will shoot at long ranges rather than not at all—because at long ranges his hits will wound game and not kill it—I believe very strongly in preaching the doctrine of heavy guns to the average hunter.

But there is another class of hunter whose needs have brought the heavier guns to the front in popularity. That is the trained rifleman—the man who wants and is able to use high accuracy to get game that would otherwise be unreachable. This kind of shooter would rather make one carefully-calculated, expertly-placed, killing shot way out there at 300 or 350 yards than a dozen at seventy-five or one hundred yards. You can do it with one of the big guns. You can't do it with a pip-squeak. To such a man his rifle is more than just an instrument with which to kill a head of game. It is a sentient thing which reacts with mechanical precision to his study, interest, and ability. And it has to be good or he doesn't want it.

Last comes the test of popularity. Slowly but surely the big guns are displacing the pip-squeaks in the game field. As an instance, only a few years ago I owned the only .270 in this neck of the woods. Now there are dozens of the boys shooting them. There will be more, lots more. And so it goes all over the country. A few years ago when mention was made of a .300 or .375 Magnum, one immediately thought of some foreign gun. Now more and more American hunters are carrying them into the big game fields.

Why? Because the big guns have proved their worth; proved their ability to do a job which none of the pip-squeaks ever were or would be able to fulfill: to make quick, clean kills under the conditions under which the average hunter shoots.

Rifle Skill Amazes Nazis

THE AMERICAN SOLDIERS' ABILITY to use small arms with that speed and accuracy which tradition attributes to our Wild West heroes has amazed the Germans and saved many American lives, the War Department disclosed when it made public reports of two battlefront observers.

Lieut. Col. James C. Mott and Lieut. Col. James I. King said the experience of the Fifth Army in Italy had proved the value of American theories of individual expertness with small arms, an expertness which has been stressed in the United States Army for twenty years and which is emphasized in the Army Ground Forces training program.

"Captured Germans," King said, "can't understand how the riflemen of an American parachute infantry regiment could face a burst of forty or fifty rounds from the lightning-fast German machine pistol, then coolly dispose of their enemy with one well-aimed shot. Infantry paratroopers armed with Springfields equipped with telescopic sights were regarded with special awe by the Germans."

The observers told how a squad led by Lieut. Ernest Childers, so close to the enemy the front line was discernible, knocked out four machine gun nests. They saw a man seated near a gun in a rocky crevasse. Childers yelled. The man rose, revealing that he was a German officer. Childers and the German fired almost simultaneously. The German was mortally wounded and the gun taken.

—*By* JAMES KING, *The Washington Post.*

HERE'S HOW

By CAPTAIN HARRY REEVES

Harry Reeves, National Handgun Champion, tells what makes the hot-shots hot. Tricks won't do it; neither will gadgets. Perfection in fundamentals is the secret. Just hold and squeeze!

SEVERAL TIMES WHEN "Lady Luck" has been with me I've managed to knock out a fairly hot score in a match of one kind or another. Other times I've been an interested competitor when one of the other shooters did likewise. Every time it happens there is a chorus chanting, "How do you do it?"

There are no deep dark secrets about shooting a rifle or pistol exceptionally well. It's just a case of perfecting the basic fundamentals—trigger control, grip, sighting, etc.—and adding a lot of "try." There are no short cuts.

However, there are lots of little things which various nationally known shooters do that they think puts a slightly keener edge on their competitive shooting. They are for the most part psychological helps more than actual physical aids. I've often heard Al Hemming or Walter Walsh or some other "hot shot" tell someone about their little aids. Usually the individual so informed concentrates on these aids but goes right on with his old faults—sloppy sight alignment, poor trigger squeeze, etc. Naturally, his score doesn't improve so he thinks the boys were "ribbing" him. They weren't; they were really trying to help.

It stands to reason that a set rule cannot be laid down on the position of a man's feet in regard to facing the target, there being great physical differences in individuals. Yet I've seen many shooters adopt positions that put them under strain just because Mel Rogers, or Maurice LaLonde, or Major (now Col.) Richards, stands that way. Instead of copying what may be perfectly right for me, yet perfectly wrong for you, I suggest (as do a number of noted instructors) the following method of finding the position best adapted to your individual build:

1. Stand in a normal, relaxed position with feet placed comfortably well apart, gun in hand.
2. Close the eyes and raise the extended arm to horizontal.
3. Move the arm from right to left until you find the position which produces no strain on back or chest muscles.
4. Hold this position and open the eyes.
5. Shift the feet only (not the arm) until the sights line up on the target.
6. Notice the angle between an imaginary line drawn through the center of each foot and one from the target to you. Assume this position always, for it is the natural position for *you*.

Now, when you get so you can "chunk 'em in" like the aforementioned gentlemen, it won't matter so much how you stand—for by that time you will have learned "trigger control," as they have done, and you can shoot from any angle. But the natural way of standing will still help.

Of course, if a person intends to "get tough"—to be a real competitor against the top shooters—he must have good equipment. Luckily, this doesn't necessarily mean expensive equipment; at least not much more expensive than the regular factory "as is" product. The Match Target Woodsman or the Target Grade Hi-Standards will shoot scores with the best of them in the .22 class, just as they come from the factory.

The Officers' Model .38 can be improved with a pair of stocks made to fit the owner's hand and a sharply checkered hammer spur. Any good shooter can make his top scores with such a combination if he tries. However, if money is available and if war conditions allow, such refinements as a nice short action by one of the reputable gun specialists, and a set of click adjustable sights, will make good talking points and may even boost your scores 1 or 2 per cent (three to five points over the National Match Course). You will need practice, of course, to accustom yourself to these new features and don't expect *any* of these refinements to make your scores jump of themselves alone. It's still trigger control and careful sight alignment that get tens. Your first scores with the new gadgets may even be lower because it's a strange gun you are shooting.

The .45 Auto-loading Pistol is a horse of another color. It was never intended as a target gun, hence is often not very accurate for target shooting at longer ranges. But it can be made to shoot accurately. I've had eight or ten of these brutes fixed up in the course of my career as a target shooter, and have never spent over twenty-five dollars on one yet, that price including a set of Sanderson stocks at six dollars. There are several good gun specialists, most of them now engaged in war work, who can "make" with a .45 and turn it into a target gun. A. E. Berdon of Lakeland, Florida, is the only one I know personally who is operating at present. I believe he charges from ten dollars to fifteen dollars for an ordinary accuracy job. Occasional "issue" .45's will shoot tight groups but they are rare.

I've had a little habit for several years of carrying something, such as keys or coins, in my left pocket to grasp in my left hand as I sight a shot. It seems to help me concentrate on the sighting and trigger control. It is one of those intangible things which I think helps me but I can't prove it.

Many is the time I've watched Lee Echols, P. M. Chapman, Rogers, Anderson, Meloche, and their Treasury Team fire five shots then go into a huddle over anything from singing "Rancho Grande," to jokes "not fitten to hear," barely getting on the line in time to fire again. That, no doubt, was calculated to ease the pressure and aid the score. (And I am here to state that it must have helped—for, all too often, they "dood it!")

One of the "gadgets" that is of some help, in specific instances, is the aperture attached to shooting glasses. For the shooter who has trouble getting a clear sight picture the aperture is often a great help. I have used an aperture for about two years and find that I have no headaches from eyestrain if I use it, whereas if I don't use it I have the headaches. I've noticed no difference in my scores with or without, but several shooters with faulty

vision have told me it has been a distinct aid to better scores.

The click adjustable sights are a distinct help, too, mainly in helping to get the gun sighted in so the center of the group is as close as possible to the center of the bull's-eyes.

Ten years ago a one-eighth-inch-wide sight was a rarity on a handgun. However, it has come to be generally accepted now that the one-eighth-inch width gives more accurate sight alignment than narrow sights.

This brings up the fact that when sight alignment is mentioned the alignment of front and rear sights in the same way for every shot is of prime importance. The gun will wobble and will seldom remain long on one part of the target, but that is secondary. It will be lined up on the bull's-eye correctly part of the time, and "trigger control" will take care of getting the shot off at one of these times. But if front and rear sights are carelessly aligned, no accuracy can be expected.

I have noticed many shooters, firing Slow Fire at fifty yards, fire a shot, look through their scope, shake their head and make a change of sight setting based on the results of that one shot. As often as not, such shooters will make another change on each succeeding shot until, at last, they give up in disgust and fire the rest of their string any old way. I've worked out a system of sighting in for a strange range, new gun, etc., that has worked well for me and is remarkably simple. When on a strange range, if time permits practice shots, I fire a careful string of about ten shots before looking at the position of the hits. When a string of shots has been fired, I go forward to the target (or check it through the scope), estimate the center of the group fired and make adequate sight correction from that group center to the center of the target. If time and ammunition permits, I do it over several times until I get the benefit of a perfectly sighted gun.

This will work regardless of whether you shoot nine-ring size groups or fifteen-inch groups and will give you a maximum score for your average size group. With a new gun I do this same thing several days in sucession, keeping a close check on the center of the groups. After it is "sighted in" I find it profitable to "scope" each shot in order to check my "call" immediately after firing. Once I get a gun sighted in I hesitate to make a sight change until positive that it is called for.

Another item of equipment which some shooters consider in the "gadget" class is a *must* article, in my opinion, for target purposes. This is the undercut one-eighth-inch front sight. The one-eighth-inch width I mentioned previously. The undercut front sight is valuable in keeping a constant zero for varying light conditions as found in strange ranges, morning light, afternoon light, etc. A properly sand-blasted and blued undercut front sight eliminates the error if one forgets to blacken the sights, as I often do. Of course, it isn't practical for a law enforcement officer's service gun or other defense guns; but this article deals with target shooting. For a practical defense gun, a front sight with notched rear surface at forty-five degree angle serves the same purpose.

I've found more novice and average shooters who are holding up their own progress by wishful thinking than I care to think about. They will fire a shot which any experienced coach can see was "jerked," but will swear that they squeezed it off perfectly. I've had arguments with top-notch shooters who claim that they always know when they have "jerked a shot." I contend that we will all fire one once in a while which goes a little wild because we gave it an imperceptible "jerk," yet we fail to realize it and think it was squeezed properly. I believe in discounting any shot that goes wild which was not accounted for. Then if a lot of them come along look for the real trouble. It may be the ammunition, the gun, or the wind, but usually it is the shooter.

If you are a novice and an experienced coach says you are jerking the trigger, give yourself an honest test via the old "empty chamber" process and be honest enough to try it several times with absolutely *no* knowledge of whether the gun is or is not loaded. It's a dead certain way to find out if you are squeezing. Have someone observe you and the observer will see things from an unprejudiced viewpoint.

I have read many articles on shooting, both before and since I learned to shoot fairly well, and in most of them the fundamentals do not conflict. However, there is one statement made quite often to which I take exception. Quite a few books on shooting state (to quote from one) "The best results will be obtained if this apparent blurring of the sights is ignored for the eye will automatically tend to center the sights even if they appear slightly blurred." To this I say—definitely NO. Instead, let the *target* appear slightly blurred, but get as clear a picture of the sights as possible. For the alignment of front and rear sights, one to the other, is THE important thing in aiming, without which accurate grouping cannot be obtained. A blurred target still presents a much more accurate aiming point than any of us can "hold for."

As a last blast I say something which will draw violent arguments any time it is brought up. I don't expect majority opinion to be with me. I merely state that I use this system and have had better than average results with it. For teaching, it would be difficult to break years of standard practice of using the six-o'clock aiming point. There is no point in teaching any other system to beginners, nor in one of average ability changing to any other system. However, if an individual has proved to be of better than average ability, I suggest that he try the "center aiming point." By this I mean placing the front sight in the center of the bull's-eye with standard sight alignment.

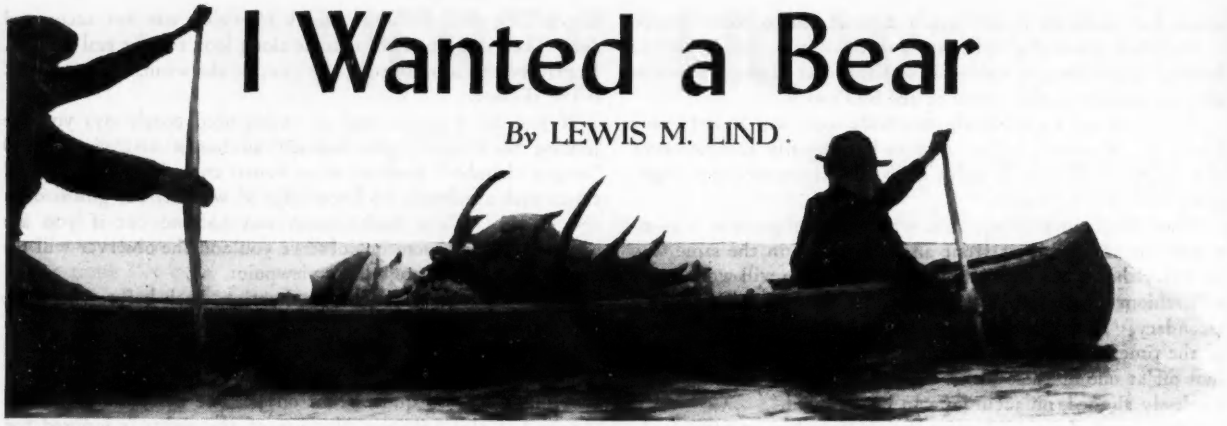
To do this requires one-eighth-inch sights, which will not have the bull's-eye for the entire background. I believe this aiming point tends to cause more emphasis on trigger control, possibly because the wobble does not show up as plainly as with a six-o'clock aim. It is definitely more practical, for one does not always have time to estimate the point of impact in practical pistol shooting.

Lt. Col. George Van Orden says, "Harry, keep pitching. Everything we ever said about the value of marksmanship is true. The only thing we should modify is to stop wasting ammunition on rapid fire and use it on slow-fire *precision* shooting and timed-fire precision shooting, never faster than ten shots a minute even at 200 yards. A real fighting man never has reason to fire faster than that in combat, and they never do.

"Another thing, we should stop wasting time on judo, etc., and spend that time on pistol marksmanship, teaching the men to use the pistol as a close range, secondary, or last ditch weapon, to kill the enemy before he gets within judo or bayonet range."

I Wanted a Bear

By LEWIS M. LIND



THE STEADY, PLEASANT GURGLE of the rapids was drowned suddenly by the deep, authoritative blast of Dad's .300 Magnum. A four-inch stone on the sand, a hundred yards across the river, slid back into the water amid a shower of rock dust. Nine more times the guns spoke and a pleasing number of those shots hit similar small objects, at ranges of from 100 to 150 yards across the water.

I picked up my .30-'06, Model 70, and wiggled into a prone position. I hit a few fist-sized stones on the far edge of the river, and then for my last shot, aimed at an old weatherbeaten section of log, far up on the opposite bank, about 125 yards away. The sight looked all right; the squeeze felt good. I picked up the field glasses. The log appeared to be about a foot long and five inches in diameter, and a black .30 caliber hole showed plainly about an inch to the right of dead center.

Olaf, Dad's guide in command of the party, Malek, my Montagne Indian guide, and the short, muscular young French-Canadian cook, all seemed to have a new deference in their manner as we got up and went for our cleaning rods.

We were on the front porch of a fire ranger's cabin, about 240 miles north of Quebec City, toward Lake Mistassini. We had come all the way by gasoline, in one way or another—auto, truck, and outboard motor. Lake St. John was thirty-five miles south of us, and we had about sixty or seventy-five miles yet to travel northward to where we figured we'd be most likely to find Dad's moose and my bear. I wanted that bear badly! I had needed a bear rug—or two of them—for years.

I had wanted to make this Quebec trip without guides, just dawdling along northern Quebec rivers until we saw game; but Dad was sensible. After much talk, we wrote to an outfitter at Lake St. John. We asked for two guides, two canoes, and two outboard motors. The acknowledgment from the outfitter accepted our proposition, and we set the day of departure, allowing nineteen days for the complete trip. Twelve to fifteen of those days would be in the woods.

The Sunday before we were to start I spent a long afternoon at Camp Simms, where the District of Columbia National Guard maintains its rifle range, targeting my .30-'06 to hit the point of aim at 200 yards. The weather was dirty, cold, and with a light rain falling. I didn't know it at the time, but that was a good day to sight the rifle in because eleven and a half days out of twelve on the trip gave us exactly that sort of weather.

Dad sighted in his .300 on his farm near Cleveland. He had about fifty sighting shots and a great deal of dry-fire practice, and his groups ran one and a half to two inches at eighty yards.

Dad took a train to Kingston, on the Hudson River, and I drove up to meet him. As we went through the desolate hills of northern Vermont and the Quebec border country, Dad told me stories of the Memphremagog Swamp, and the hardships encountered by Roberts' Rangers in "Northwest Passage." A week later we were thoroughly familiar with that same wet, arduous kind of travel!

It took about eight hours of steady driving north through the Laurentides Park to reach the shore of Lake St. John, about 175 miles from Quebec. The road had been pretty good gravel most of the way, but narrow, and on arriving at the crests of the little hills, the roadway went down again so sharply that it couldn't be seen over the hood of the car.

We went on through Roberval, along the southwestern shore of Lake St. John to Pointe Bleue where we found our outfitter. We met Olaf here for the first time, and were very favorably impressed with him. It was quite late in the evening, so immediately after supper we had Olaf inspect our gear, some of which we discarded on his recommendation, and went to bed.

Perhaps it should be mentioned that the outfitter furnished all of the camping equipment except personal belongings. We each had our own clothes, which included high-laced moccasin-type boots, a pair of low shoes or moccasins, four medium-heavy pairs of wool socks, about three good woolen shirts, two suits of long woolen underwear (not too heavy) a sweater, a heavy hunting jacket of thick virgin wool, and either a short yellow slicker or green cloth poncho. We also had, of course, our own firearms, a pair of field glasses, cameras, cartridge belt, hunting knife, etc. I found that the hunting knife was always a nuisance on my belt; always in the way in a canoe, not large enough to chop wood, too large for most other jobs. A big jackknife with blades ground to a sharp edge, was much more useful.

The outfitter supplied, in addition to the canoes, two good wall tents, about 9 x 9; two square sheet-iron stoves; a large roll of four-point Hudson Bay blankets which allowed each of us three double blankets—more than enough; a sack of cooking utensils which included, among other things, tin plates, knives and forks, three frying pans, five kettles ranging from two-quart to two-gallon capacity, and a one-gallon coffee pot.

The daily charge of about twelve dollars for each of us included all of the above, the services of the three men (two guides and a cook) who went with us, and the food. A big strong box, about two feet square and a foot deep, held the grub, and it was wonderful grub! Besides the good staples, there were delicacies such as a baked ham, several kinds of preserves in quart jars,

and some three dozen eggs to eat during the first few days out.

Neither the cook nor my guide, Malek, spoke anything but French, and for two days they couldn't understand my attempts to speak that language. The cook was a husky lad, and when he wanted to he could carry an awe-inspiring load of duffel across a portage.

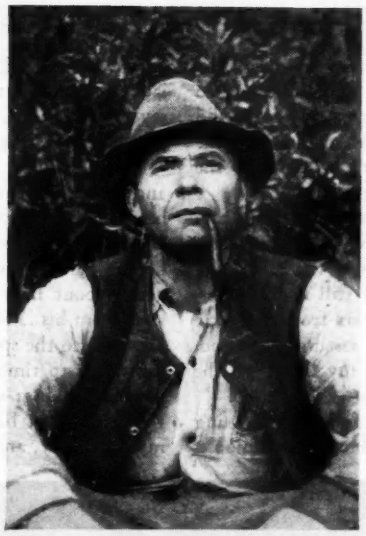
A truck took the five of us and our two canoes fifty miles further north to St. Thomas, our jumping-off point. A husky transom-end canoe with a big motor towed us, lashed together catamaran-fashion, another thirty miles or so, to the ranger's cabin and our first portage. There the outboard and its chauffeur left us, and it was there the next morning that we checked the sights on our rifles.

The next day I had my first introduction to a tumpline. At Olaf's suggestion I took it easy for a trip or two with loads of about forty pounds. Later I worked up to eighty or ninety pounds. We all rested some on the long portages. I carried my rifle slung over my right shoulder constantly on all portages, even though our equipment was so bulky that four of us had to make three trips on each portage.

A little experimenting had taught me a handy trick with a rifle sling. This was an inch-and-a-quarter-wide military style strap, and I had adjusted it until I found a length which was tight enough to be comfortable and manageable when slung over my shoulder, yet loose enough to tie on my left upper arm in military fashion without changing the hooks. This was also about right for use as a "hasty sling." Then I took four pieces of rawhide, each about eight inches long, and ran them back and forth through the holes in the several thicknesses of sling until this adjustment was secure. Except for prone target shooting, I have always since preferred the sling arranged in this unorthodox manner.

After the three-mile portage, which took the better part of a day, we came to a small lake, paddled across it, and made our first camp. An hour's fishing brought us four bass, enough for supper. We tied our shoes and boots to the ridgepole of the tent, upside down, and by morning the warm air from the stove, rising to the top of the tent, had them thoroughly and comfortably dry.

The next three days were spent much the same way. The water got faster (we were going upstream), and we often had to make short portages around rapids, sometimes four or five in one day. It rained or drizzled constantly, but we soon became used to it, and the snug tents and stories in the evenings seemed all the more pleasant after the uncomfortable days.



Olaf: guide, whitewater man, and thinker.

Whenever we stopped on a sandy beach to eat or rest, we were certain to see moose tracks, and occasionally those of a bear. Ducks were frequently seen. Usually they stayed out of shotgun range, but eventually we bagged two which we surprised as we paddled slowly around a bend.

Arriving at our "permanent" camp site, on a promontory at the north end of a large lake, we pitched the tents about noon. It was a good location, with a long view to the south, east, and west. On either side of us, back to the northeast and northwest, reached two branches of the river, which, uniting again three miles to the north, placed us, technically speaking, on an island.

The next morning Malek and I left camp early, and walked north from camp on our island in search of bear. Dad and Olaf went westward to the mainland in a canoe, looking for moose. We each took a sandwich, and agreed we might stay out most of the day.

About twenty minutes walking over rolling hills, through areas of fallen timber, brought us to a mass of rotting logs where the claw marks of bears, digging for grubs, were much in evidence. The rain had begun again, and was not to end for another week. We looked about carefully in this region for an hour or more, examining all slopes facing us with the glasses, looking for a black spot on a hillside which would prove to be a big black bear.

We had seen none by noon, and were resting standing up, about to move further north, when Malek's acute Indian ears brought him a faint message which I was completely unable to hear: the queer bellow of a bull moose. He replied to the call—that's how I knew it was queer—and became completely primitive, every instinct in him alert. He crouched, turned his head from side to side to judge the direction of the sounds, shot quick glances at the terrain, estimated the wind, then ran forward silently, beckoning me to follow.

Malek could run bent over, with his head only waist high, as fast as I could run erect. We stalked the moose almost a half mile, by Malek's ears alone, until we came to the upper edge of a sort of natural amphitheater. There, down on the back of the "stage," standing in a small clearing, between 400 and 500 yards from us, was the bull moose. He looked toy-like standing there, as motionless as any painted moose, and Malek watched him from behind a bush.

He looked so long, I thought he was waiting for me to fire. I took off my spectacles, wiped off the rain with one of the several shirt-tails I was wearing that day, and began dubiously to raise my sight. I had memorized the tables of elevation fairly well before starting, and figured that a change of about eleven minutes would be about right. The range I estimated at 450 yards. I tried to encourage myself by remembering that back at Camp Simms I had hit targets of that size at such a range with some frequency, but I was all too conscious of the bitter truth that this was only an *estimated* 450 yards! It makes a considerable difference!

Malek must have heard my sight clicking. He glanced over, grinned at my unhappy expression, and said, "No shoot. We go much closer!" I was relieved.

Malek led and I followed as best I could on a circuitous route behind bushes to the lowlands about 250 yards nearer our quarry. He stopped there to explain to me in an excited whisper. The moose was in a stream bed, below ground level, in a mass of brush. We would crawl on our bellies the rest of the way, emphasis on silence rather than speed. I nodded.

I think the next 160 yards were traversed in utter quiet. In that fast dash awhile ago, I had stepped on one or two twigs in spite of my best efforts, but now, since we could take our time,

and the ground was only six inches or less from my eyes, I could see noisy branches as well as Malek could and neither of us made a sound. We slithered through mud puddles, wiggled over fallen logs. It was comforting to know that we would encounter no rattlesnakes on that crawling expedition. I wouldn't have gone so intimately into the bushes and around logs in the West Virginia mountains for a million bucks! Even so, it was tough going, but it accomplished its purpose. It brought us to within forty yards of our moose.

We were there—but where was the moose? We sat crouched behind a log for three long hours, waiting for that moose to show himself! We could have hit him with a rock, had we known his exact location, but we didn't. We could only wait hopefully—and swear.

We were downwind from him, and Malek was able to smoke two pipefuls of tobacco. We both took off our red woolen jackets; Malek pointed out that their color was pretty violently in contrast with our present surroundings. That left Malek in a green wool shirt, and me in a dark brown leather vest. It was cold . . . and wet.

We saw a cow moose once, so close that two jumps could have landed us on her back, but no bull. The bull was apparently asleep.

Finally Malek looked at my watch, and gave a disgusted grunt. It was four-thirty in the afternoon. Something had to be done, or we wouldn't be able to see our moose when he did move. But Malek had the answer. He told me to take the safety off and get ready. He pointed where he thought the moose would appear. He picked up two sticks.

We both rose as he threw one stick gently into the little ravine, and my Winchester was at my shoulder. Nothing happened. The other stick smacked decisively into the brush and brought forth a snort from the ravine. But still no moose.

Then Malek grabbed a three-inch log about six feet long. He seemed to go mad! He cracked that log on a stump, shouted, swore—and bade me keep my eyes open and my finger on the trigger while he did it. I followed his orders—and waited.

All at once he shouted on a new note and pointed. I swung the front sight in the appropriate direction, but saw no moose. Malek yelled again. I peered all over the area, and still couldn't see the beast. That was an anxious moment!

And then—I saw him. I saw his antlers first. After that, even I was able to find the rest of the moose. He was broadside on, with his right flank toward me, about forty yards away. It was my first moose, and he was big. A momentary wave of fear of the big rascal rang through me. What if he should charge us and I should get buck fever?

I was really quite steady, but I might get jittery any minute! I decided to aim for where he was biggest. This meant not the heart, just behind the foreleg and a little above the belly-line, but about six inches directly above the heart. I said a small prayer and let him have it at that spot.

He stood stock-still for a second, then disappeared. Malek shouted I had hit him, but hearing the moose crashing through the bush made it hard for me to believe him.

I had thrown a new cartridge into the chamber, and was wishing I had used a 225-grain bullet. Just then, the moose crossed an open spot about 175 yards away. I was standing up, the moose was trotting, and he didn't look a great deal larger at that range than my front sight. I squeezed the trigger. This time, he went up on his hind legs, and crashed.

Jabbering like monkeys, we approached our moose. As we got within twenty yards I felt again that something strangely akin to fear that I had felt at my first sight of him. I held my rifle at the ready. He really was huge, probably 1,800 pounds. His antlers had a spread of fifty-six and a half inches.

My first shot had hit just where I had aimed, in the lungs six inches above the heart. The second shot hit on the same level, but three inches to the rear. Pieces of the jackets and splinters of rib had driven through his lungs in several directions. Malek dressed him out, and we walked happily back to camp. My head was in the clouds.

Dad and Olaf, hunting for moose, had stalked two big bears and two cubs that same afternoon! The bear with cubs had been a half mile away when first sighted. Crawling slowly over the crest of an intervening hill, they saw the back of another bigger black bear, over the tip of some gently waving high grass, about fifty yards in front of them. Dad tried a spine shot from his .300, and the bear went down. But, by the time they got to the spot, he was out of sight in a line of brush leading down to timber. An entire afternoon spent tracking him yielded nothing; not even a spot of blood.

We all went back in the canoes as close as possible to where my moose lay, and took the customary pictures. Malek cut off the antlers and skinned off the cape for mounting; then cut off about 150 pounds of meat for home consumption. That night, back in camp, the cook fried moose steak.

It started to snow a little the next afternoon and we all agreed that, with our summer equipment, it was a good time to be leaving the North woods. But we'll be back again, to stay longer. You see—I still want that bear!

Downstream, shooting rapids around which we had portaged on the way up.

IF YOUR MAGAZINE IS LATE

Please bear with us if your copy of THE RIFLEMAN arrives later than you have been accustomed to receiving it. In normal times the magazine is mailed on a schedule providing for delivery during the first week of the month of issue. We still mail according to a plan designed to insure simultaneous deliveries throughout the United States; but the wartime strain on publishing, postal, and transportation facilities makes it impossible to guarantee normal deliveries. Only a return to normal conditions will remedy the situation. We beg your indulgence, therefore, and ask that you wait until the twentieth of the month before reporting non-receipt.

Controlled Combustion Chambers

By E. BADEN POWELL

CHAMBRAGE—THAT IS, THE SHAPE AND DIMENSIONS of the chamber of a gun—is the most important factor contributing to power and efficiency of any caliber; and, judging by the great diversity of opinions and customs displayed by gunmakers, it is one of the least understood. Years of experience and study in hydraulics and particularly of the flow of air, steam, and other gases at extremely high pressures and velocities and their control in industrial uses, give the clues to the laws of physics which must be obeyed if one is to obtain the greatest power and efficiency, with safety, in any rifle.

The accompanying photographs show some of these firearms and their cartridges before and after, together with their effects on armor plate. The chart gives data covering several popular calibers showing the increased velocities and power obtained by changing the shape and dimensions of the chambers of regular standard-grade factory guns.

Referring to the chart, four of the calibers selected (i.e., .220 Swift, .257 Roberts, .270 WCF, and .300 Magnum) are the "hottest" and latest loads available in regular commercial rifles. To improve their power materially simply by chambrage changes would, therefore, seem to be a worthy advance in firearms knowledge and practice, provided the accuracy and safety were not impaired thereby.

High voltage indeed are some of these. Left to right: Original .300 Miller K. .300 PMVF. .257 PMVF. .22-348 Miller. .30-'06. .30-'06 PMVF. .270 PMVF. .220 Swift PMVF. .257 Japanese. .30 M1 carbine. .22 Miller Krag. .50-30 Miller, sectioned to show typical Venturi shape.

Barrel length, bore capacity, and twist of rifling are brought into sharp relief. The .22 bullets are all so light that they seem to reach near maximum velocity from the powder gases in about twenty inches and seem to penetrate about as much steel from short barrels as they do from twenty-six-inch or thirty-inch barrels; and the muzzle blast with seventy to eighty grains of powder from twenty-inch barrels, in .22 bores, seems to be little more than from longer barrels when using controlled combustion chambrage. The resistance of the bore and lands of the barrel to the flow of both bullet and powder gases is so great at velocities above 4,000 f.s., in present style barrels, as to allow very little increase in the velocity of .22 caliber bullets, regardless of how much powder is burned. Therefore, if one shoots forty-grain bullets, almost top velocity can be attained with a proper chamber handling forty grains of LMR No. 4320, from a twenty-two-and-one-half-inch barrel. *Twice* the powder charge in a thirty-inch barrel might increase the velocity 10 per cent but I would not guarantee that it would.

On the other hand, if one shoots sixty-five-grain bullets, he can expect almost as high velocity when using sixty-five grains No. 4320 as with sixty-five grains behind the forty-grain bullet. All this, of course, applies to guns with chambers that control combustion and detonation. Don't try such powder charges in conventionally shaped chambers. Only heaviest bullets in .22 caliber provide for powder efficiency when magnum charges are used. The higher velocities of some magnum charges stabilize longer bullets in slower twists. For high velocities somebody ought to do something about gain twist!

There are those who say that steel penetration is just a question of velocity. That seems true only when comparing bullets of the same caliber and weight in armor-piercing types. With bullets of the soft-point, hollow-point, solid-cased, tracer, etc., type, it is a very different story. When they get up to certain velocity levels, any of the expanding bullets of the same caliber and weight will penetrate almost equally in steel. It is purely a matter of the *time* of the application of the forces that determines whether the resistance of the steel is broken down. Anyway, such bullets do not pierce steel; they simply sheer it or punch out a plug. Armor-piercing bullets actually pierce steel. Hence, they penetrate in proportion to striking energy.

However, .30 caliber sporting bullets, at velocities that will scarcely dent the surface of half-inch armor plate, will drive out plugs one-half-inch in diameter, weighing twice as much as the bullet, when struck at 10 per cent higher velocity. But fifty-grain .22 caliber bullets fail to penetrate as much plate, at 1,000 f.s. higher velocity, as 150-grain .30 caliber bullets (half-inch plate at 4,400 f.s. and 3,400 f.s. respectively).

Barrel length is quite important in the larger bores. The caliber and barrel length should about coincide; i.e., 22½-inch, 25-inch, 27½-inch, and 30-inch barrels for the .22, .25, 7mm., and .300 calibers respectively. However, I prefer all the barrel length possible, commensurate with correct gun weight to assure the minimum required barrel rigidity for accuracy.

Our .300 PMVF has a twenty-nine and one-fourth-inch barrel and weighs twelve and one half pounds, complete with scope. A longer barrel in this weight would be too whippy, and a heavier gun is too much to carry all day in high mountains. The twelve-and-one-half-pound gun was carried quite comfortably this fall, however, hunting deer in the high Sierras. This was proved conclusively again this season. The sling carry makes any gun up to twelve pounds an easy chore, and there is no reason for anyone being handicapped with a light weapon.

The longer the barrel, the heavier the rifle must be to give it minimum required rigidity. Thirty-inch barrels in .22 caliber, having proper chambrage, afford only about one-half the velocity increase over twenty-inch barrels, compared to .30 caliber barrels of the same length. The heaviest available .223 caliber bullets lose more than twice the velocity during the first 100 yards at their PMVF velocities compared to well-shaped .30 caliber bullets at their PMVF velocities. Hence, carrying a twelve-and-one-fourth-pound thirty-inch-barreled .22 would increase velocity from 100 to 150 f.s., or about 2½ per cent over that of a nine-and-one-half-pound gun with

22-inch barrel, and would increase the actual range of similar remaining velocity by only about 5 per cent or fifteen yards at 300 yards.

On the other hand, a thirty-inch .30 caliber barrel would increase velocity by 250 or 300 f.s. over the shorter barrel, which would about equal the velocity loss of well-shaped .30 caliber bullets over the first 100 yards, and the 30 per cent increase in weight of a twelve-and-one-half-pound, thirty-inch-barreled, .30 caliber gun would give a corresponding 30 per cent increase in range beyond 300 yards, thereby justifying the extra weight.

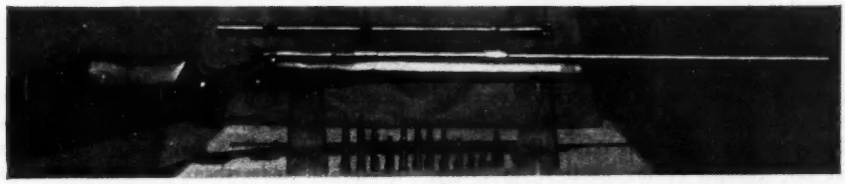
The smaller-bore rifles with barrels of similar rigidity and accuracy save weight by reducing unnecessary length through use of proper chambrage. In order to obtain the maximum inherent accuracy from conventionally shaped rifles, it is necessary to maintain a minimum rifle-weight-to-barrel-length ratio as follows: 9, 10, 11, and 12 pounds for 22-, 24-, 26-, and 28-inch barrels. Weights below these ratios reduce accuracy.

CAL.	CARTRIDGE	BARREL		WEIGHT	PRIMER		POWDER		BULLET		VELOCITY				ENERGY	PENETRATION	
		length	twist	with scope	make	No.	wt.	type	wt.	type	indic. aver. muzzle	chronographed average 78 ft.	chronographed average 123 ft.	indic. remain. 300 yds.	indic. remain. 300 yds.	bullet proof homogeneous armor plate at 100 feet	
		(inches)		(lbs.)			(grs.)	(IMR)	(grs.)			(f.s.)			(f. p.)	(inches)	
																crater depth on 3/4" plate	thickest plate penetrated
.22 1	.220 Swift WCF	26	14	9	WCF	120	40	4320	48	WRA	4140			2265	550	7/64	3/8
2	.22-'06 PMVF	26	14	9	RA	9½	45	4350	63	Sisk	3706	3548	3447	2120	630	7/64	3/8
3	.22-348 MVF	24	14	8½	RA	9½	60	4320	40	Sisk	4641	4084	3726	2250	450	10/64	3/8
4	.223 MAG. PMVF	22	14	9½	WCF	120	70	4350	65	S-S	4000*			2700*	1050	12/64	3/8
.25 5	.257 Roberts Rem.	24	10	9	RA	9½	42	3031	87	S.P.	3220			1995	705	1/64+	1/4
6	.25-'06 PMVF	24	10	9	FA	70	52	4350	117	HP-BT	3100			2170	1225	1/64	1/4
7	.25 Mag. MVF	24	10	8 3/4	RA	9½	70	4350	100	Savage	3469	3372	3309	2475	1360	13/64	3/8
8	.257 Mag. PMVF	24	10	10½	WCF	120	75	4350	125	Barnes	3350			2595	1865	16/64	1/2
.28 9	.270 WCF	24	10	9	WCF	120			100	WRA-SP	3540			2600	1500	13/64	3/8
10	.270-'06 PMVF	24	10	9	FA	70	60	4350	130	H.P.	3172	3117	3082	2490	1800	2/64	1/4
11	7mm. Mag. PMVF	26	10	11½	WCF	120	80	4350	160	WTCM-HP	3350			2765	2730	20/64	1/2
.30 12	.30-'06 Spr.	23 3/4	10	9	RA	9½	54	4320	150	B-P	2960			2275	1725	1/64	1/8
13	.30-'06 Spr.	23 3/4	10	9	RA	9½	50	4320	180	EXP	2710			1905	1450	-1/64	1/8
14	.30-'06 Spr.	23 3/4	10	9	RA	9½	47	4320	220	EXP	2410			1815	1610	-1/64	1/8
15	.30-'06 PMVF	24	10	9	FA	70	60		145	M-2 HP	3250			2510	2090	1/64+	1/4
16	.30-'06 PMVF	24	10	9	FA	70	60	4350	165	M-1 HP	2990	2864	2777	2130	1665	1/64	1/4
17	.30-'06 PMVF	24	10	9	FA	70	57	4320	165	M-1 HP	3100			2220	1810	1/64	1/4
18	.30-'06 PMVF	24	10	9	FA	70	58	4350	210	Krag DCM-HP	2600			1950	1770	1/64	1/4
.300 19	.300 Mag. WCF	26	10	9 3/4	WCF	120	63	4064	150	P.P.	3245			2515	2115	1/64	1/4
20	.300 Mag. WCF	26	10	9 3/4	WCF	120	60	4064	180	O.P.	3060			2200	1935	1/64	1/4
21	.300 Mag. WCF	26	10	9 3/4	WCF	120			220	S.P.	2730			2055	2070	1/64	1/4
22	.300 Mag. MVF	26	10	9 3/4	RA	9½	75		180	S.P.	3200			2315	2155	18/64	3/8
23	.300 Mag. PMVF	25½	10	9 3/4	RA	9½	93	4350	150	M-2	3700	3585		2825	2675	30/64	5/8
24		25½	10	9 3/4	RA	9½	88	4350	165	FA ar-p	3450	3333				48/64	3/4
25		25½	10	9 3/4	RA	9½	88	4350	180	MC-BT	3350	3233		2710	2940	24/64	1/2
26		25½	10	9 3/4	RA	9½	85	4350	220	Core-Lokt	3045	2950	2888	2320	2625	20/64	1/2
27		29 1/4	10	12½	WCF	120	95	4350	110	EXP	4000*			2370*	1370	28/64	1/2
28		29 1/4	10	12½	WCF	120	90	4350	145	M-2-HP	3800*			2920*	2745	32/64	5/8
29		29 1/4	10	12½	WCF	120	86	4350	165	M-1-HP	3600			2815	2920	28/64	1/2
30		29 1/4	10	12½	WCF	120	82	4350	210	Krag DCM-HP	3100			2265	2420	21/64	1/2

* Based on comparative steel penetration and trajectories.

All velocities given under chronograph column were actually fired by the writer through the Aberdeen-type chronograph at the Army proving grounds this year. Some of the other velocities given were calculated from cartridge-factory and other recognized publications, and the rest deduced from comparative trajectories, steel penetrations, etc. All PMVF loads given have been exhaustively tested in standard grade commercial guns converted to controlled combustion chambrage.

Evidence of pressure on primer pockets in most PMVF loads is considerably less than those of factory loads in standard chambers of the .220 Swift and .270 WCF. Loads numbered 15 to 18, and 28 to 30, have been adopted as our standards in .30 caliber for the duration, due to considerable NRA-DCM components available from others. Heavier loads can be used before attaining maximum pressures, but these proved to be the most accurate. Many reduced loads can be used in PMVF chambers, but our favorites are eighteen grains No. 4759 in the .30-'06 and twenty-four grains of the same powder in the .300 Magnum back of the 196-grain Hensley-Gibbs No. 99 mold, cut to cast .310 bullets, then lubricated with IPCO in an Ideal .311 sizer in which the Ideal gas checks are simultaneously attached. This load, in proper arms, is good for 10X "possibles" consistently.



.300 PMVF with Lyman 6X Junior Targetspot sight and Winchester 29-inch Sniper barrel.

Recoil and recoil inaccuracy are important considerations when powder charges above sixty grains are used, regardless of caliber. The regular-weight Swift using sixty-five grains No. 4320 behind fifty-five- to sixty-five-grain bullets recoils about as noticeably as the .30-'06 in regular loading; but neither of our .250 and .300 PMVF's punish the shooter any worse than does the regular issue .30-'06 rifle because the former are properly stocked. By properly altering the stock, comb, and pitch, and attaching a good recoil pad, inaccuracy due to recoil can be cut in half, and noticeable recoil reduced to absolute comfort even in the .300 with full loads.

However, powder charges of about 100 grains behind heavy bullets are the limit of "recoil accuracy" in twelve-pound guns. Proper bedding of barrel and action in stock is of extreme importance with heavy charges. Properly bedded and stocked, the increased PMVF velocities do not alter the inherent accuracy of the arm. Improper bedding existing in many commercial arms, due to mass production, or change in bedding due to drying or warping of wood, or cutting barrel off when setting back for reheadspacing, causes poor grouping. With proper rebedding, accuracy is restored to normal.

Controlled combustion chambrage causes barrels to heat nearer the muzzle first, at the chamber last. Hence, expansion and contraction of metal is opposite in time to that in standard-chambered guns, and this has its effect on how hot or cold barrels group. Barrels and actions free of internal and external stresses are inherently accurate, unaffected by warpage due to heat, or cold, and shoot the same point of impact hot or cold. Further study is being made of the problems of stocking, bedding, and barrel stresses, and results will be reported later.

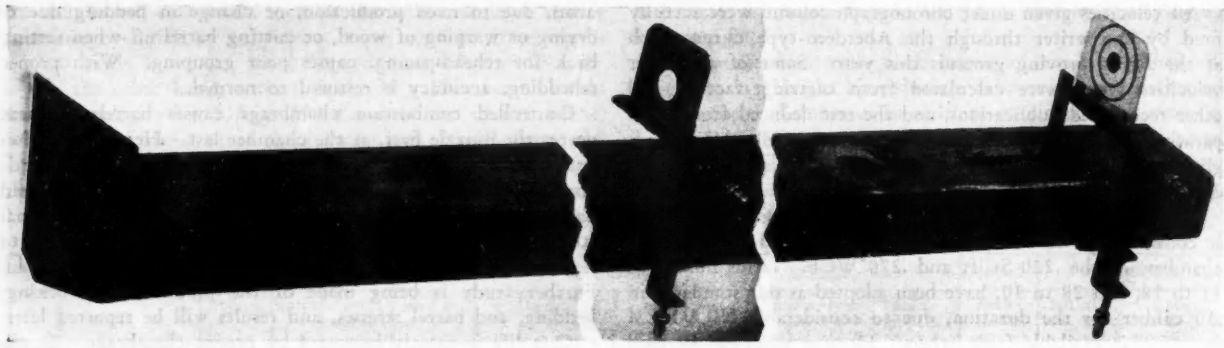
Case life is greatly increased by proper chambrage. In the extreme case of necking down .348 cases to .22 caliber, 10 per cent are lost in sizing down, 10 per cent more in first firing, 1 per cent per firing thereafter with heavy charges. In bringing the Magnum cases down to .22, .25, and 7mm. the percentages are successively less, down to half as much in the larger bore. In blowing the 300 Magnum cases up to PMVF, some makes of cases lose 2 per cent while others of harder brass, without annealing the necks, lose up to half. This is particularly true of such cases that have been used several times before in standard chambers. Properly annealed, none are lost.

About 600 .30-'06 cases have been blown up to .30-'06 PMVF without a single loss, brass from 1918 to 1942. The .300 and .30-'06 standard factory cartridges shoot as well in PMVF chambers at materially lower maximum pressures as in standard chambers. Twenty old 1927 .30-'06 cases that had been previously reloaded many times were blown up to PMVF and reloaded twenty-five times more at pressures one grain under primer-leak pressure (64 grains 4350-M1) without loss of a single case. Upwards of 1,000 rounds of .300 PMVF have been fired this past year involving about 150 cases, some of which have been reloaded more than twenty-five times, and the only cases lost after forming have been those fired with charges from two to five grains heavier than those listed as chronographed. All opened the primer pockets, but failed nowhere else on any occasion.

They Do It with Mirrors

REMINGTON ANNOUNCES the development of a new, compact, easily operated and inexpensive device with which the sights on Springfield rifles may be quickly and perfectly adjusted without firing the rifles. The instrument not only saves time and labor, but eliminates the necessity for a large investment in range facilities and creates a substantial saving in ammunition. This saving amounts to about $300 per day.

The new device is called the Optical Bore and Sight Aligner. A plug is inserted into the barrel at the muzzle. Attached to the plug is a tube containing mirrors and lenses. The tube is above the bore line, and is adjustable so that it can be set exactly on the line of sight. The front and rear sights are then illuminated and, by means of the tube of lenses, the images of the sights are projected upon a screen. These images form a pattern on the screen much like what the shooter sees. The pattern is changed when the sights are moved. The action is similar to that of artillery or camera range-finders that show an object in dual. Adjustment brings the dual objects together. At this point the alignment is perfect. The bore plug guides the optical tube so that when the pattern is corrected the sights are lined up.



An Improved Sighting Bar

AN IMPROVED VERSION of the regulation sighting bar recently found its way to NRA Headquarters from Clearfield, Pennsylvania. J. A. Giles of that city, who is responsible for the new bar, writes that the students of his Small Arms Firing School use it quickly and accurately. "They seem to get a better understanding of the sight picture," he said.

Essentially the bar is the same as the older bar which has served so well for many years. The improvements of the new version are mainly in the positive screw adjustments for the target and the large rear aperture. It is shown in detail with primary dimensions in the accompanying drawings.

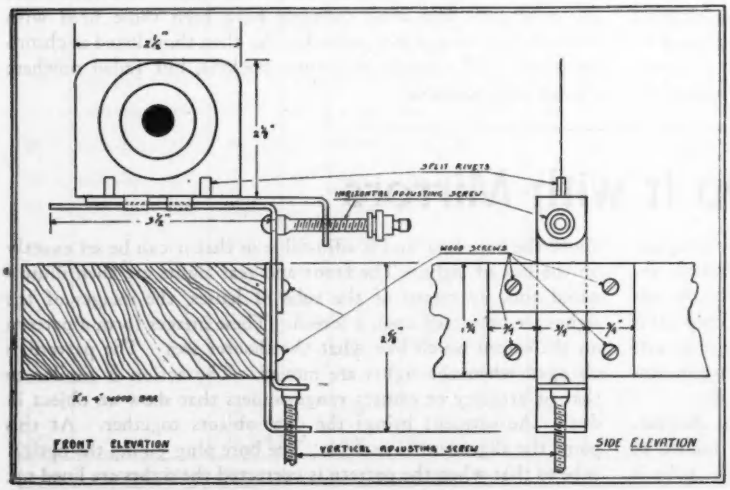
The device is mounted on a two-by-four, forty-eight inches long. All parts are made of bar iron three-fourths inch wide by one-sixteenth inch thick with the exception of the target itself and the rear aperture. These are made of medium-gauge sheet metal folded over about three-eighths inch at the bottom for rigidity. Actually there are no positive requirements with respect to the materials used. Anything available will do.

The adjustable mounts are fastened to the side of the bar as shown. First, a fixed L-shaped bar is fastened with wood screws to the bar and extending below it about seven-eighths inch. On each side of this fixed piece, two pieces of this metal are fastened by wood screws, one over the other. Across the top of these is fixed another straight piece two and five-sixteenths inches in length. This strap holds in place the vertically adjustable arm. The side pieces and the cross strap should be snug but not tight; just snug enough to permit the vertical arm to move easily between and under them.

Target and the rear aperture are held by two split rivets drive fit into the horizontal arm as shown. For a firm grip, these rivets are simply forced together with a pair of pliers.

This horizontal arm is held to the vertical arm by means of two metal straps wrapped around snugly under the target.

All parts are very simple and can be made easily by anyone with a few tools and a fair knowledge of their use. The only intricate pieces are the adjustable screws. (Four are needed for each bar.) And they're really not as difficult as they may appear, providing you have and can use a soldering iron. The screws, to begin with, are three-sixteenths inch round-head machine screws two and one-eighth inches long. These are inserted down through the smooth holes in the upper and lower positions of the vertical arm as shown in the drawings. A hexagonal nut is then run all the way up to the arm as far as it will go, but not too tightly, and soldered in place. The screws must turn freely in these two holes. Then it is run through the threaded holes in the L of the fixed support arm and the horizontal arm as shown. A knurled nut similar to those used on battery connections is run onto the screw about five-eighths inch and secured in place by means of another hex lock-nut. These two are also soldered into place so that they are immovable. The screws are now ready for making necessary adjustments.



A simple L-shaped piece of iron one-half inch wide and two and one-eighth inches high, fastened to the bar in front of the target by means of two wood screws, serves as the front sight.

The small rear peep hole in the eyepiece is one-eighth inch in diameter in sheet metal similar to that used for the target and the rear aperture sight. It should be located centrally in the eyepiece about one and one-fourth inches above the bar.

All in all, the manufacture of this bar is not a difficult feat. It can be made of materials found around nearly any active workshop. We have been deliberately general in our specifications because they should not be regarded as positive requirements. Results are the objective and the means are incidental if they do the job.

Simplified Small Arms Ballistics

FOR THE SPORTSMAN AND SOLDIER

By the OLD COACH

VII. INTERIOR BALLISTICS

Putting Pressure to Work

MOST SHOOTERS take it for granted that the higher the chamber pressure the higher will be the velocity. That idea is correct *only so long as all other factors are equal.* One of the most important of those factors is the element of *time.* To borrow from the physics textbook and do a bit of paraphrasing we can state the principle in this way—"When a specified force (pressure in pounds per square inch) is applied to a movable object of specified weight (bullet) the resultant *motion* (velocity in foot seconds) will be in direct relation to the length of *time* the force is applied." This explains why it is possible to increase velocities *without* increasing chamber pressures by using "progressive" powders which increase the *time* during which rapidly expanding gases work on the bullet. Reversely, if the *time* element is sufficiently *reduced* velocities may be *reduced* even though pressures are *increased.*

A familiar example is the case of the mighty slugger in baseball. His bat meets the ball squarely and with a beautiful long swing which keeps the pressure behind the ball just as long as possible. The ball sails out of the park. Next time at bat the "King of Swat" takes the same hefty swing. Bat meets ball squarely. There is a loud crack. The ball pops feebly into the hands of the surprised pitcher. The bat has broken! Bat met ball with the same force in each case *but* in the first instance the force was applied over a measurable period of time, in the second instance the force was removed when the bat cracked.

Remember, then, comparative pressure figures are, of themselves, no safe guide to comparative velocities. To obtain maximum velocities the ballistician strives to maintain pressure behind the bullet for as long a *time* as is feasible considering such complicating factors as muzzle flash, muzzle blast, and recoil.

A second factor to bear in mind when considering pressure at work is this: gas expands *equally* in *all* directions. Chamber pressures are measured in *pounds per square inch.* If the chamber pressure is 40,000 pounds per square inch and the base of the bullet has an area of *one-half square inch* the pressure working on the bullet is only one-half of 40,000 pounds or 20,000 pounds. If the caliber of the bullet is of a size to present an area of only one-quarter square inch to the expanding gases, the pressure actually *working on the bullet* will be only one-quarter of 40,000 pounds or 10,000 pounds. If the three bullets were of the *same weight,* and if the pressure were maintained for the *same period of time* the bullet of largest diameter would have the highest velocity because the pressure *at work on the bullet* would be the highest of the three—this in spite of the fact that the *chamber* pressure was the same in all three cases.

Why, then, do we obtain higher velocities without increased pressures when we "neck-down" a .30 case so as to handle a .25 bullet? Because we maintain the same *volume* of gas in the case, the gas fills a greater portion of the .25 barrel than of the larger .30 barrel. Therefore, although the pressure at work on the base of the bullet is *less* the pressure continues *for a longer time* and higher velocities result. Of course, the fact that the .25 bullet is usually lighter than the .30 bullet also helps but that is an additional factor with which we are not concerned now.

The ratio of powder gas expansion between chamber and barrel is important in determining the relative efficiency of different combinations of powder charge, cartridge case, caliber, and barrel length. For instance, the .30-'06 Springfield cartridge case has a cubic capacity of approximately 2.51 cubic inches. It requires 3.4 inches of the .30 barrel to have an equal cubic capacity. Therefore, when the .30-'06 bullet has moved down the barrel 3.4 inches, the powder gases have expanded to double their original volume. When the bullet leaves the muzzle of the twenty-four-inch barrel the gases have expanded to about seven times their original volume. The .30-'06 is a bottle-necked case.

Considering now the .30 Carbine M1 we find a straight-taper case with a capacity of about .081 cubic inch. When the bullet has moved down the barrel about 1.2 inches, the gases have expanded to twice their original volume. When the bullet emerges from the muzzle of the eighteen-inch barrel, the gases have expanded approximately fifteen times. Thus the shorter barrel of the carbine actually is a more efficient engine than the longer barrel of the rifle *because of the difference in cubic capacity* of the cartridge cases!

The carbine has the advantage of a 26 per cent lighter bullet but the carbine barrel is 25 per cent shorter than the rifle barrel. The powder charge is about 70 per cent less by weight yet the muzzle velocity of the carbine is only 26 per cent less than the velocity of the rifle. This is an excellent example of the advantage of utilizing the work of the expanding gases while they are increasing their volume fifteen times (as in the carbine) as compared with keeping them at work only during a seven times expansion (as in the rifles). To attain equal efficiency as a powder burner the Springfield and Garand would have to have barrels fifty inches long! This discussion applies only to the relative efficiency of arms (considered as internal combustion engines) in the utilization of their fuel. It has no reference to the efficiency of the carbine as compared with the rifle in the field of killing power and penetration. These are subjects for *external* ballistics.

The point of diminishing returns (as to muzzle velocity compared with the volume of gas expansion) varies with different powders, bullets, twist of rifling, and possibly other factors. Experiments with the .22 Long Rifle using the standard lead bullet have shown that with smokeless powder velocities begin to taper off at a point about sixteen inches down the barrel—a point where the gases have expanded to thirty-seven times their original volume. Similar tests with "Lesmok" powder showed a falling off in velocity at a point about twenty inches from the breech. This represented an expansion of forty-six times the original volume of the gases. Once more we see that the ballistician cannot afford to "jump to conclusions" or to accept general statements as being applicable to specific cases!

Another effect of pressures at work inside the gun which is little appreciated by shooters is the swelling of the barrel caused by the fact that the expanding gases press equally in all directions. Most shooters think of the gases as pressing on the base of the bullet, but overlook the radial pressure pushing outward against the bore. The logical result of this radial pressure is an expansion of the barrel behind the bullet. As the bullet moves down the barrel the pressure drops and the amount of barrel expansion proportionately decreases. The degree of expansion varies with pressure, thickness of barrel wall, method of construction of barrel, and type of metal used in barrel. The passage of the bullet down the barrel has been described by one ballistic authority as resembling the swallowing of a pig by a python—at first there is a large swelling which gradually becomes smaller as the pig is forced further and further down the snake's insides. The "Doubting Thomas" can prove this barrel expansion to his own satisfaction if he wishes to destroy a good barrel in the process. First, fire a metal-jacketed bullet into a pile of waste so that the bullet may be recovered without deformation. Measure the diameter of this bullet. Then cut twelve inches off the barrel, and fire and measure another bullet. Then take off three inches of barrel and from that point remove one inch at a time. Just where the expansion of the bullet will be first noted cannot be guessed in advance but the base of the bullet will show a larger and large diameter as the barrel is shortened. Near the chamber the expansion will be visible to the naked eye without aid of micrometer calipers.

Another effect of pressure at work driving the bullet into the rifling is to set up a series of vibrations in the barrel such as would be set up by striking the end of the barrel with a hammer. These vibrations travel the length of the barrel. They can be noted by stripping a barrel and receiver from the stock; clamping the receiver in a heavy vise; hanging a number of U-shaped wires over the barrel at intervals of about two inches; then tapping the tang of the receiver with a mallet. As the vibrations travel through the barrel the wires will work their way forward or backward and arrange themselves in tight groups at various points along the barrel.

Yet another set of vibrations is set up in the barrel because the barrel normally has a slight droop at the muzzle. This is not visible but *any* horizontal tube, regardless of size, has a slight droop between and beyond its points of suspension. As the bullet and powder gases rush down the bore they tend to straighten the tube and vibration results.

The fourth factor disturbing the barrel is the factor of torque (twisting strain) caused by the bullet (which wants to move forward in a straight line) being gripped by the spiral rifling and forced to rotate as it moves forward. Part of this twisting strain is transmitted to the receiver into which the barrel is firmly screwed—but as the bullet moves further and further down the barrel away from its point of support in the receiver there is more and more tendency for the barrel to become distorted by the twisting action.

When all of these disturbing factors are taken into consideration it is easy to understand why the target rifleman asks for a "free floating barrel." So long as these vibrations and distortions remain constant they do not affect the accuracy of the rifle. If the normal vibrations are disturbed by pressure on the barrel at some new point (such as might be caused by the wood in the stock swelling from absorption of moisture) an entirely new set of vibrations will be set up in the barrel, the muzzle will be pointing in some new direction at the instant the bullet is launched on its flight—and the shooter will wonder what has happened to his "accurate" rifle.

Because a large portion of the torque is transmitted to the receiver it sometimes happens that the removal of metal from the receiver (to lighten it or to modify the action in some fashion) will ruin the accuracy of the rifle until the barrel has been carefully rebedded.

The vibration and distortion of the barrel as the bullet travels down the bore is the reason that shooters are cautioned never to rest the *barrel* on a fence post or against a tree in the effort to improve their marksmanship. The vibrations and distortion due to torque travel down the barrel *ahead* of the bullet so that a normal launching of the bullet from the muzzle is impossible when the barrel is rested against a solid object. It is quite all right for the shooter to rest his forearm or the back of his hand against a fence post or tree because the fleshy part of the hand or arm provides the necessary cushion to permit the barrel to vibrate normally.

It is obvious that the thin-walled light-weight barrel will be more violently vibrated and more extremely distorted as the bullet moves through it than will be the case with thicker-walled heavier barrels. Slight variations in pressure, velocity, bullet weight, etc., will have a greater effect in setting up variants from the normal vibration of a light barrel than will be the case with a heavy barrel. The same disturbing forces are present but the thicker walls of the heavier barrel react more slowly and distribute the stresses and strains through a greater mass of metal—the vibrations are "dampened out" so that the reaction is more nearly the same from shot to shot. This explains why the heavy "bull gun" barrel gives more consistent accuracy than the light-weight sporting-type barrel.

Recoil is another result of pressure at work in the gun. Newton's third law of motion is "for every action there is an equal and opposite reaction." Thus, when the expanding gases push the bullet forward, they exert an equal force backward against the breech of the gun. This force sets up the initial recoil. Everyone knows that the heavier an object is, the more energy and time is required to set it in motion. You lean lightly against a baby carriage and it moves forward almost instantly—lean heavily against a Ford and it begins to move only after several seconds of pressure. Applying the same principles to a bullet, (weighing perhaps one-fiftieth of a pound) and to a rifle (weighing about nine pounds) it is easy to understand why the bullet moves *forward* much more quickly than the rifle moves *backward* though the pressure *is* the same in both directions. By considering the same illustration it is easy to understand why the use of a heavier bullet increases the recoil—the heavier bullet requires more force (action) to start on its way down the barrel so there is more force (reaction) exerted to the rear against the breech with resultant heavier recoil.

Another point usually overlooked by the shooter in connection with recoil is the fact that *the gases generated by the disintegration of powder have* the same weight as the original powder charge.* These gases are expelled from the gun along with the bullet so their weight must be added to the weight of the bullet in estimating the energy of recoil. This explains why black-powder loads give a heavier recoil than smokeless loads developing the same muzzle velocity. The black-powder charge weighs more than the smokeless charge. Because of the comparatively

* Technically speaking the products of combustion include not only gases but also some solids and liquids. It is the combined weights of all the products of combustion which equal the original weight of charge.

great weight of a rifle as compared with a revolver, this effect is scarcely noticeable in a rifle but it is definitely noticeable in the big revolvers, such as the .45 Colt, which were designed to handle large charges of black powder.

The initial recoil acts in a straight line to the rear. The muzzle of the gun swings in an upward arc because the line of thrust of the recoil (a line through the center of the bore) is several inches *above* the main point of resistance (the point where the gun stock bears against the shooter's shoulder). The barrel and receiver, in effect, try to move straight to the rear out of their groove in the stock and over the shooter's shoulder. This naturally swings the gun upward around the pivot formed by the gun butt and the shooter's shoulder. This explains why there is a *seeming* difference in the recoil of a gun having a "straight" stock as compared with a gun of the same weight having a stock with considerable "drop" even though both guns weigh the same and fire the same charge.

There is another factor in connection with recoil which has caused a good deal of discussion and some heated argument. It is a factor that is given greater weight today by most ballisticians than was the case a few years ago. It might be termed "secondary recoil." It is the result of the continued expansion of the powder gases *after* they emerge from the muzzle of the gun. Remembering that expanding gases press equally in all directions, it becomes obvious that the same gases that press forward and sideways, causing muzzle flash and muzzle blast, also press *backward* with equal force against the forward part of the gun. By the time these gases have emerged from the muzzle the gun has already begun to swing upward and to the rear—its inertia has been overcome and it has begun to pick up momentum—hence even a slight additional push will add appreciably to the velocity of recoil. The amount of additional recoil energy imparted by the reaction of the gases at the muzzle will depend (a) on the volume of expansion which has taken place inside the barrel before the bullet leaves the muzzle: (b) on the frontal area of the gun exposed to the reaction of the gases; and (c) on the density of the atmosphere. The most important of these factors is (a) which helps explain why a light, short-barreled gun like the .30 carbine (with an expansion factor of 15X in the bore) will sometimes have a lighter recoil than a much heavier gun like the Springfield (with its expansion factor of 7X in the bore) even if bullets of the same weight are used.

No, enemy sniper is not U. S. Marine—has missed twice at one-quarter mile.

In all discussions of recoil it is, however, essential to realize that recoil as the ballistician *measures* it is quite different from "kick" as the shooter *feels* it. The ballistician's "recoil" is a precise matter of energy in foot founds. The shooter's recoil, which he usually refers to as "kick," is compounded of ballistic recoil, the upward swing of the muzzle and the twisting, slapping effect caused by barrel vibrations, torque, and the amount of drop and castoff in the stock. This is the reason for a gun which seems to be a kicking mule to one man not being at all uncomfortable to another man whose physical build fits the stock.

Skill—Or Luck?

By E. M. BLADES

THE STORY FOLLOWED the usual pattern. On the last day the persistent hunter connected. It was a "perfect heart shot, a clean kill," at between three and four hundred yards.

I chewed that over, puffed vigorously at my pipe. Nice shooting that! But was it skill—or was it luck?

Far be it from me to question the ability of another rifleman—but one sometimes wonders. For example, consider that with a rifle having a twenty-eight-inch sighting radius, any slight movement of front or rear sight will move toe point of impact on the target 100 yards distant, 128.5 times the amount of the sight movement. If either sight moves 1/100th of an inch the point of impact moves 1.285 inches on the target. At 300 to 400 yards this means three to five inches. It takes a good rifleman to hold into six inches at 100 yards, sitting, and at 300 yards these six inches become twenty-four or more.

Winchester says that the .30-'06 Super-speed with the 180-grain, expanding-point bullet, in a rifle zeroed at 200 yards, drops nine inches over the first 300 yards and thirty-two and a half inches at 400 yards. The hunter must make an allowance for at least twenty-three and a half inches. And this does not take into consideration such little matters as wind, light, altitude, sling tension (not to mention the hunter's tention) and a few other little items more or less important.

These things, of course, are well known to the expert rifleman and the experienced hunter. But to the average hunter they will probably cause just so much more confusion.

It would seem that the odds on such long shots are definitely against the hunter who takes them so casually. Clean kills from such long-range shots are not made on every hunt and maybe that's why they write about them. Such a shot is the lifetime ambition of every keen hunter rifleman.

So we continue to enjoy reading about the long shots that bring home the bacon. Our blood tingles and we long for the season to open so we, too, may try our hand at a long shot.

When and if we do, and if we connect, will it be skill, or just plain luck? It *can* be skill. Rifleman, know thy gun!

BRIDGEPORT, CONN., FEB. 1944

Rifle Remgt

Possibles and Impossibles

by **FRANK J. KAHRS**

Some time back I had something to say in this column about covered firing points. Seems as though I can stick my neck out farther and oftener than anybody I know, because immediately I got letters from fellows around the country who tell me about the wonderful covered firing points they have on *their* ranges.

Now I didn't mean to imply that there weren't any covered firing points. As a matter of fact, I think I stated that there were several good covered ranges here and there, and that I had seen them in my travels. I don't suppose there would be enough space in the column to list all of the ranges in the country that have covered firing points. However, every now and then I'm going to mention this subject and tell about some rifle club that is fortunate in having good protection from the elements.

While vacationing recently in Clearwater, Florida, I visited the local rifle club range and, as usual, had a bit of pistol and rifle shooting. A good time was had by all, particularly because this club has one of the finest covered firing points in the country, and the layout is all very comfortable and convenient. You can shoot rifles up to 200 yards, and, if you get tired of that, the pistol range is right next door. There you can get in 25- and 50-yard firing, or you can peg away at a silhouette of Hitler. Incidentally, this club, while not large in membership, is active, and any weekend you will find some of the boys out there pegging away and hoping at least for a 10X.

* * *

As these words are written, the year is drawing rapidly to a close—so far as the sport of smallbore rifle shooting is concerned—and it has been only a fairly active year, at least in competitive firing. But it has been a very active one for clubs that have gone in for basic rifle training. A large percentage of our rifle clubs have been doing a swell job along these lines, and are still doing it and will continue as long as the need is there.

But we're going to get back to competitive shooting one of these days, and I hope that the day is not too far distant. Being of a naturally optimistic nature, I look forward now to getting back into the swing of things maybe a little sooner than I thought we would a year ago. Call it a dream if you will, but if it's only a dream, then I like to dream.

* * *

I read a story not long ago and it concerned the imagination, and it went on to say that without imagination there isn't much in life for anybody. I'm inclined to agree with that, but I was a bit shocked at the example used to illustrate the story. It was about a little girl who told stories, and they were weird stories in figures of the imagination — little fairies, gnomes, giants and all that sort of thing, and she really believed them. She was encouraged by her school teacher to tell these stories, and when the school teacher was reprimanded for encouraging the little girl to tell stories, she justified herself by stating that it developed the imagination of the child, and that without imagination no child would go very far.

So, I take mine out in dreaming and if I can dream about a lot of new M/37 Targetmasters coming through, or some M/513T Matchmasters for delivery to some customers who have patiently waited now for nearly two years, I will be very happy to dream on. But I hope it won't be long before my dreams come true.

* * *

Considering the fact that there hasn't been any .22 match ammunition made for two years or more, it's quite a sight to see so many of the boys on the firing line still shooting their favorite brand. I notice, however, an absence of fouling shots, and there aren't so many sighting shots either. Yes, the boys are really beginning to scrape the bottom of the barrel.

"Targetmaster" and "Matchmaster" are Reg. U. S. Pat. Off. by Remington Arms Co., Inc.

A CLUB PROJECT THAT HELPS YOUR COUNTRY—*and you!*

Several times before we've expressed our [a]ppreciation for rifle clubs that share their facilities [with] pre-induction rifle classes. We want to do so [again].

Current accounts from the fighting fronts—[especially] the jungle fronts—continue to prove the [value] of accurate rifle shooting. In the man-to-man rifle [duels] that occur so frequently, the difference between [good] shooting and not-so-good shooting is often life [or] death.

Of course every boy in the Army gets [a] tough course of rifle instruction. *But*—a boy is [pretty] much ahead if he learns good shooting before he's [in the] army. Rifle clubs, by teaching pre-inductees the [basics] of marksmanship, have undoubtedly saved many [lives].

Why not organize pre-induction rifle [classes] *your* club? Just write to the National Rifle [Association], Washington, D. C., for details on organization [and] shooting equipment. Such a project will not only [help] pre-inductees in your community—*but* it will [stir] up interest and activity among your club members. *Remington Arms Company, Inc., Bridgeport, Conn.*

THERE'S ONE IN EVERY CLUB . . . . . They

Remington News

A PAPER FOR PEOPLE WHO SHOOT

What song does this picture suggest?

It's almost dusk, and you've called it a day. The wind that's been whipping across the duck marsh has died now to a gentle whisper in the tall grasses. A big orange sun breaks through the clouds and lays down long shadows, and the evening chill creeps into them. The sun lights up a last late flight of mallards—a flashing mass of color. But you've bagged your limit. You're tired, hungry, happy—and headed for home.

And the song this scene suggests? To every duck hunter, it's *"The End of a Perfect Day"*—a perfect day of freedom to enjoy a grand sport for men and women, young and old, rich and poor—a sport that's an American heritage.

Millions of American sportsmen are now gone from marshes like this one—fighting to defend *all* American heritages. And we of Remington—who have supplied these sportsmen with sporting arms and ammunition in times of peace—now supply them in the armed forces with the military arms and ammunition needed to get this war won . . .

Since Pearl Harbor, Remington has produced enough military small arms ammunition to fire more than 500 times at every Axis soldier.

But soon, we hope, we will welcome the return to peacetime business—when again we can serve our sportsmen friends with Remington shotguns and rifles, Remington Express shells, Hi-Speed .22's with Kleanbore priming, and Remington big game cartridges with Core-Lokt bullets.

Meanwhile, as a reminder of happy hunting experiences in days past, and those yet to come . . . you might like a free, full-color enlargement of the picture above. If so, write Dept. AR, Remington Arms Company, Inc., Bridgeport, Conn.

"Express," "Kleanbore," "Hi-Speed," "Rangemaster," are Reg. U. S. Pat. Off.; "Core-Lokt" is a trademark of Remington Arms Company, Inc.

Song title by courtesy of The Boston Music Co.

Remington "Rangemaster" Model 37 bolt action target rifle and Palma Kleanbore .22's.

Remington

DU PONT

Speed Victory Day . . . . . Buy Bonds

Gunstock Design

(Continued from page 17)

is going to punish a man. Cut the comb down one-sixteenth inch below where he thinks he needs it. This applies to rifles of low or medium power. On more husky arms, cut it down one-eighth or possibly five thirty-seconds of an inch.

Generally I make a comb a good inch forward of where I think it should be; then, during the try-on, rasp it roughly back until I see that it is cuddling snugly against the base of the shooter's thumb. I don't bring it back all the way—quite—but nearly all the way, leaving just enough to allow for finishing, shaping, and sanding.

Usually I start with the comb one-half inch thick, thining it down in the try-on as needed. Usually it works out to from three-eighths inch to one-fourth inch at the upper edge. I work it down only on the "shooting side" (according to whether I have a right-handed shooter or a southpaw) at the try-on. Later, I work down the other side to match.

The most pleasing outline for the comb is shown in Figure 3—a rather sudden down-drop at the point, blending into a gradual slope into the upper tang. This feature is very prominent on many Griffin & Howe stocks, some of the old Hoffman's, and some of Bob Owens'. Note that this stock is not undercut. The comb runs about straight down for the first quarter inch to three-eighths inch, then out into a graceful swell which leads forward into the grip. For this comb I am indebted to Johnny Dubiel. A more artistic stocker or finer workman in wood never lived!

If you feel you must add a touch of finesse, shape the comb as shown in Figure 2. This is found on a few of our very finest American and foreign shotgun stocks. But don't overdo it. If you *must* undercut a comb, do it gently.

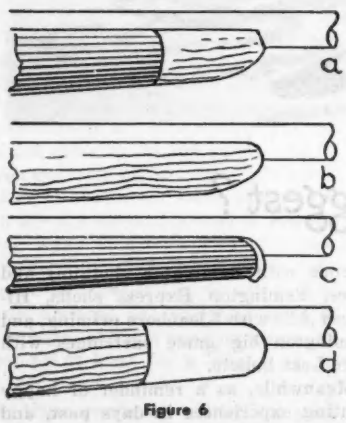


Figure 6

Figure 5 shows approximately the ideal butt shape. (Minimum dimensions, 4¾" x 17/16"; maximum, 5¼" x 1 11/16"; 5" x 1½" approaches the ideal.) Don't be guided by any rubber recoil pad you may have—rubber manufacturers are not stock designers. Make yourself a paper or sheet metal templet or two and be guided by them. Buy your recoil pad a bit (not too much) oversize and grind it down to fit.

Stoeger's best grade steel buttplates are excellently designed and you cannot go wrong in shaping a stock to conform. This applies also to most standard shotgun buttplates.

The Monte Carlo comb was originally designed for the shotgun, but it is even better on a modern high-power hunting arm. *Never* make the mistake of building a Monte Carlo with any difference in drop between comb and heel, its usefulness depends entirely on a dead-level top line parallel with the axis of the bore. The Monte Carlo may be used alone or combined with a cheekpiece. In the latter instance they should be blended together, not separated.

Castoff is not too well understood by most stockers, but is very useful in fitting the shooter once you get the idea. About 99 and 99/100 per cent of offhand shooters will do better work with a stock having about three-sixteenth inch castoff at the heel, and five thirty-seconds inch at the toe (Figure 7). This is equivalent to moving the front sight nearly an inch to the right on most rifles, and to twisting the butt slightly to conform more nearly with the curve of the shoulder. With a stock correctly cheeked for a quick shot, the eye usually

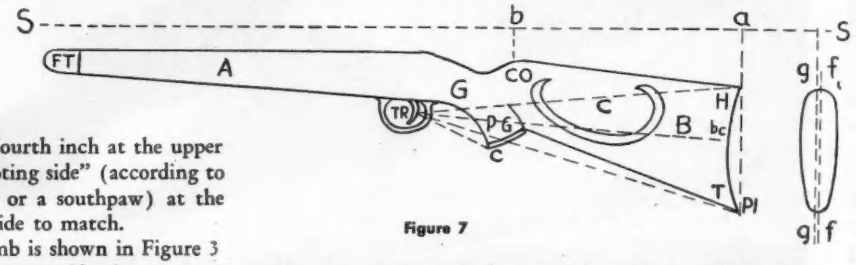


Figure 7

tends a bit the right of the center line. The castoff compensates for this. Inlet your barrel and receiver parallel with the center of your stock blank, and let your castoff start to angle to the right at the receiver sight, or trigger, or thereabouts.

The sides of the stock should follow approximately straight lines from buttplate to center of pistol grip. Any "pot-belly" along the sides of the stock is anathema. And the man who would "cut in" a stock back of the grip, with the grip bulging out wider than the stock behind it, should be shot!

The grip section should be a rather full oval—a *true oval*—Figure 5, "E," not two nearly flat sides with rounded edges. The oval here shown was sent to me in 1927 by Colonel Whelen, and in fifteen years of careful work I have found no grip formation comparable to it. Reduce the size equally all around if you like or use this general shape for the pistol grip cap, thinning the grip slightly on the sides to provide a slight flare toward the bottom.

Several forms of fore end cross-sections are shown in Figure 5. On a job I once did for Colonel Whelen, specifications called for a round section as in "C." My personal preference has always been for a modified pear-shaped section, such as "A." The usual factory style is shown at "B." Typical of the exaggerated "beavertail" often specified, particularly on target rifles and trap guns is "D." Generally speaking, the one shown at "A" will do the job in a very pleasing manner.

Generally speaking, the fore end should extend ahead of the receiver a distance about equal to half the barrel's length—say from nine and one-half to twelve inches, according to barrel length. And it should end in a pleasing and streamlined manner. Figure 6 shows several commonly used types of fore-end tips, and ways of attaching them.

Good design requires that the bottom of the fore end run in a fairly straight line from the front guard tang to the fore-end tip—not sway-bellied nor pot-bellied. Which reminds me, I nearly overlooked the very important point of lower edge of buttstock. This, too, should run in a dead-straight line from heel of butt to rear of grip cap, with the projected line continuing still in a straight line to the rear of the guard tang, neither rising above nor dropping below it (Figure 7).

POWDER SMOKE: READERS COMMENTS THE NEWS DESK

RE-LOADS . . .

OLD MASTER LOOKS AHEAD

Seattle, Washington.

Editor:

As conditions improve on the battle front a man's thoughts stray to the home front "after the war." I'm past forty, a confirmed pistol bug. I have fired in the Master Class since that system was established; but to win a place here in the Northwest against such shooters as Chapman, Rogers, Trones, O'Brien, and a host of young hot-shots is a feat that requires plenty of practice and I'm wondering whether, after the war, I'll want to spend the time and money to stay in competition or if I might rather relax and just shoot "for my own amazement."

I wonder if those thoughts aren't typical of those of many men like myself; men who love the game but who lack the ability, maybe, to be really top flight? I know the shooting game must have new blood and young shooters, but keeping the old ones is important too. Here is my suggestion:

Most of us older shooters have medals galore—but nothing to be really proud of and admire. How about some sort of a point system with, for example, a nicely engraved gun (given by the manufacturer or by NRA) as the reward for attainment of a specified number of points? This could be worked out so that a shooter would have to shoot really well over a considerable length of time to win, and the reward could be publicized so that it would really mean something.

Sure, most of us old-timers will stick to the game, in any case. We couldn't quit! But as for myself, I'd shoot until I was too feeble to stand up on a firing line if some such award were offered.

M. J. Archambeau, USCG.

EXCLUSIVE

Somewhere in the Aleutians.

Editor:

I received the October and November issues of THE RIFLEMAN, the latter reaching me December 5th. Both arrived in good shape. I think your idea of putting them in an envelope is very good.

Magazines aren't too plentiful here and that makes THE RIFLEMAN rather exclusive! It is enjoyed very much, I assure you. The article by Munroe Goode in the November number was enjoyed very much. Would like to see something by Paul Gardiner.

Cpl. Donald Secky.

MUZZLE LOADERS CLUB

Chicago, Illinois.

Editor:

The group of muzzle-loaders around Chicago is really going ahead with serious, active organization. Wednesday night we had a meeting at which W. J. Holliday showed colored movies which he and Jack O'Connor took this fall in the mountains of British Columbia. We had a substantial attendance in spite of zero weather and conflicting dates.

The gang decided to go ahead with a permanent organization. We have two or three pretty good outdoor ranges lined up, two good gallery ranges are available, and it is possible that we may be able to shoot 100 yards indoors this winter on a private range. Martin J. Kiley, 11133 St. Lawrence Avenue, Chicago, is secretary of our club which we have named The Chicago Chapter, National Muzzle Loading Rifle Association. I am going to try to have the club affiliate also with NRA. Would appreciate it very much if you would mention the formation of this club in THE RIFLEMAN.

Morrison Worthington.

READ THIS TO YOUR TRAINEES

Somewhere in Italy.

Editor:

Just received the November issue of THE AMERICAN RIFLEMAN. Think you are doing a swell job with your pre-induction rifle instruction. Have talked with quite a few fellows who were reluctant to go on certain missions on account of their lack of ability as riflemen. Many have expressed the wish that they had taken such a course as yours before going into the army. I'm certain it will mean a lot later to the boys that expect to go in soon. I know it has meant a lot to me!

Pvt. Dean Fish.

Pvt. Fish was with the first troops in Africa, later in Sicily, and still later at Salerno. His is the voice of experience. Thank you, Pvt. Fish; and thank you again on behalf of those inductees who should be influenced by your advice.

WE'RE PROUD

Suffield, Connecticut.

Editor:

The article, "One of 'The Men of Perry,'" published in the December issue, was most enlightening. It is most encouraging, too, to learn what advantages a marksman has in the service.

The case of Sergeant Benko, distinguished Arizona Rifle Champion, is a typical one. Along with countless NRA members, he left to fight for his country. Now his shooting is paying dividends. Sixteen Zeros? "That ain't the half of it!" he'll be telling us when he shows up at Perry one of these days.

Benko is one of our boys; the Joe Hunter, the Bill Sportsman, the John Marksman, teaching the Japs how to shoot. What do we think of him? We're proud, damned proud; and we've all the reason in the world to be so. So, Sarge, keep your eye out for those slant-eyed Gremlins—and keep shooting!

And in the meantime, let's have more stories about our boys in the service.

W. W. Shuit.

LETTERS WANTED

Somewhere in the South Pacific.

Editor:

It has been so long since I've seen a RIFLEMAN I don't know if I'd recognize it! I was transferred from Floyd Bennett Field in New York to San Francisco and then to sea. Haven't yet received the November issue.

A few days ago I talked to a Chief who knew a bunch of small-bore men. From his talk I gather that most of the gang are in the services and I've been trying to picture Camp Perry when the National Matches are resumed after the war. Imagine the stories that will be told!

Meanwhile, will you please print my mail address? Maybe some of my friends will write. Also, I'd sure like to get my copies of THE RIFLEMAN.

Lieutenant (j.g) J. R. Wark.

Lieutenant Wark is well remembered as a Camp Perry addict and a member of the International Team some years ago. His present address is: Navy, 1 4, A F G U, % Fleet Post Office, San Francisco, California.

INTERESTED? YOU BET!

Silver Spring, Maryland.

Editor:

I read with interest in the January issue the account of OCS Platoon No. 709 that recently qualified 100 per cent on the range at Parris Island, thereby making range history.

It might interest you to know that the high score in this platoon, 327 x 340, which failed by only two points to break the all-time Parris Island range record, was fired by NRA Life Member Raymond W. Ickes, who has had considerable experience in both rifle and pistol matches in various parts of the country.

Mrs. R. W. Ickes.

PACIFIC SOUTHWEST RIFLE

The Sixth Annual Pacific Southwest Class "C" Registered Tournament held at Glendale, California, November 13th and 14th, brought out fifty-nine shooters. Scores were much better than average in all classes.

Real surprise of the shoot was in the Dewar Any Sight Match. Mary Ellen Hodge, San Gabriel, member of Los Angeles R. & R. Club, sixteen years old, fired 200-14X at fifty yards and 200-12X at one hundred yards for a total of 400-26X—only to be topped by Robert E. Perkins, Fresno, with 400-31X. Perkins went on to win the championship with an aggregate of 2585-195X, dethroning A. W. Morganfield, Santa Barbara, whose aggregate was 2570-146X.

Miss Hodges shot on the L.A.R. & R. first four-man team which scored 797-44X to win by one point. This score is within two points of the national record.

Mary Ellen has been shooting in Senior competition about two years, though still a Junior. She is the only woman on the Los Angeles club team.

NEW YORK SMALL BORE

The Seventh Regiment won the championship of the First Brigade in the Seventh Regiment Small Bore Matches, fired at the Armory November 13th under the auspices of the Seventh Regiment Rifle Club. One hundred and eighty contestants represented the Seventh, Fifty-first, and Sixty-ninth Regiments and some thirty civilian rifle clubs.

The course of fire was twenty shots prone and ten shots standing, on the NRA 100-yard smallbore target. The Seventh Regiment team (five men) scored 1,386, topping their nearest competitor by eighty-two points.

William F. Alcock, "C" Co., Seventh Regiment, topped all competitors, military and civilian, in the iron sights match, scoring 287-12X. George Renfro, Antlers Rifle and Pistol Club, scored 393-10X to win the any sights match. Fred Willing, Metropolitan Club, won the aggregate with 575-26X.

Miss Audrey Bockman, twelve-year-old star of the Swiss Club, scored 286-16X in the any sights match and 259-13X in the iron sights. Miss Eleanor Dunn, Roosevelt Rifle Club, national fifty-yard record holder, scored 227-10X and 274-11X respectively.

NEW YORK PAPERS PLEASE NOTE

When two robbers entered his liquor store, Victor Voida, Los Angeles, California, seized a revolver and fired two shots. One robber fled. The other fell, wounded in the shoulder and abdomen.

Police congratulated Voida and gave him more cartridges!

GENERAL RECKORD CALLED TO EUROPEAN THEATER

Major General M. A. Reckord, Executive Vice-President of the NRA, now on leave of absence, has been assigned to new duties as Provost Marshal General of the European Theater of Operations under General Eisenhower. General Reckord was first elected an executive of NRA in 1926; has been on leave since 1941. Until recently he has been head of the Third Service Command with headquarters at Baltimore, Maryland. Already at his new post in London, General Reckord succeeds Brigadier General Gordon C. Hollar who now becomes his deputy.

This new assignment is a merited recognition of General Reckord's long and brilliant military career. In 1901 he enlisted in the Maryland National Guard. Within three years he had his captaincy and within another three his majority. During the First World War he commanded the 115th Infantry in France. He received the Distinguished Service Medal at Verdun and the Croix de Guerre with Palm.

He was made a Brigadier General in 1920 and in 1934 assumed command of the 29th Division with the rank of Major General. General Reckord went into active service early in 1941 and shortly thereafter was made Commandant, Third Corps Area. This later became the Third Service Command.

His new post is one of great responsibility and importance. It demands a man of General Reckord's stature.

ANNUAL BOARD MEETING

In accordance with the Association's by-laws, the regular Annual Meeting of the Board of Directors of the National Rifle Association will be held in Washington, D. C. on Friday, February 4th, 1944. The Meeting is for the purpose of electing officers for the ensuing year and for transaction of such other business as may be presented. It will take place in the Mayflower Hotel, beginning at 8:00 p.m.

PLEASE RENEW EARLY

Federal rulings on the use of paper require us to end subscriptions promptly on their expiration date. Shortage of help causes an unavoidable lag in the preparation of new mailing stencils, with the result that late renewals may miss one issue of the magazine. To avoid this, please mail your renewal promptly on receipt of your first renewal notice.

NEW BOOKS

"THE ARMY READER"

Edited by LT. COL. KARL DETZER

This volume purports to tell the "story of the Army as it is today." This is a big order, but the attempt has been very much worth while. As a collection of articles it goes far to inform as well as to entertain and interest one who is concerned at all in military affairs. The selections are from a wide range of authors. A number of them make a peculiar appeal because they are of the "I-have-done-it-or-am-doing-it" type. Some of the writers are high in the Army, while some are unknown war correspondents out merely on assignment. Secretary Stimson and General Marshall are contributors. Nearly all of the articles have appeared in magazines or newspapers or were given as addresses over the radio. Three appeared in the *Atlantic*, about a dozen in the *Reader's Digest*, and about half that number in the *Saturday Evening Post* and *Collier's*. From this range of reader appeal can be seen the general background in the selecting. The articles are mainly nontechnical and make their appeal to the reader who is intelligent but who is not necessarily interested in strategy and the professional aspects of the Army. The story is a tale of all the Army of today, but we must concede that the emphasis is on the newer and more unusual branches of the Army in the present struggle. That is as would be expected. Paratroops, tank troops, the Women's Army Corps, all are here. The newer uses of the radio and the greatly increased emphasis on aircraft and increased skill in medical affairs are told in illuminating sketches. As seems to be true of many of the selections included in recent collections, some of the articles seem unduly short.

One unfortunate impression that would obtain from these selections is that the man with the gun is unimportant in the Army of today. Too little is said about the infantryman. After all the man with the rifle and the man who knows how to hit what he aims at is the important man even in the newer Army. From these selections one could assume that he had gone and his place had been taken by these newer branches of the service. Soldiers must still carry the rifle and be able to shoot it.

The absence of the index is to be deplored but important tables giving simple but well-arranged diagrams of the organization of the Army appear in the "footlocker."—L.F.T.

(469 pages, cloth, $4.00, Bobbs-Merrill Co., New York.)

"CROW CALLING"

By BERT POPOWSKI

For many of us the word "crow" means year-round shooting sport at an elusive target. For this reason we are always eager to read more and learn more about this pesky bird. Surely Popowski had this in mind too when he wrote this 92-page booklet offering suggestions on crow calling. The author realizes too that more than mere suggestions are necessary to become a good crow caller.

To avoid disappointments, probably it is best to mention that this booklet is composed mainly of material previously published in a number of sporting magazines. Now this information is gathered into a single volume, consisting of ten chapters. Some useful suggestions are offered for locating a crow roost, types of decoys, methods of trapping crows, and an interesting chapter on organizing a crow shoot, based on the actual Annual Crow Hunt by the sportsmen of a small South Dakota city. Most of the information is for the shotgunner—A. H. B.

Paper bound, illustrated, $1.50; through author, 3408 Jones St., Omaha 5, Nebraska.

"THE SHAPING OF INLETTED BLANKS"

By ALVIN LINDEN

Actually this is booklet number two of "Firearms Design and Assembly," a Linden-Samworth series intended to cover gunstock making from beginning to end. We know Linden is well qualified for the job, as this was well proved in booklet number one, "Inletting of Stock Blanks," and number three, "Finishing of Gunstocks." The humoristic Linden style is still outstanding, but the honest-to-goodness information is there. Linden makes you feel that the shaping job is really not so complicated as we are usually led to believe. He sets out to "prove" anyone can do the job, and a good one too if only his instructions are followed. He reasons his point by citing examples based on his previous experiences at stock making.

Again the author does the sketches and two full-scale pattern sheets with notes on design. These are No. 5 and No. 6, comprising four examples of custom built sporting rifles, based upon the Model 70 Winchester. Fourteen of the pages have "notes on remodeling the Model 70 rifle." Pages one to forty cover the shaping of the inletted stock blank.

The author in his instruction assumes the blank has been inletted according to plans in

COMING EVENTS

Registered Class "C" Tournaments

Illinois, January 16—I.S.R.A. Mid-winter Indoor Pistol Championships, sponsored by Illinois State Rifle Association. Robert W. Maloney, 5553 West Grace Street, Chicago (41), Illinois.

North Carolina, February 19—Fourth Annual Indoor Pistol and Rifle. Charlotte Rifle and Pistol Club. John H. Pierczynski, 1221 E. 36th Street, Charlotte.

Nonregistered

Missouri, January and February—American Smallbore Indoor Record (postal) Matches, 50- and 75-foot offhand. Claude E. Roderick, Monett, Missouri.

New Jersey, January 15—50-meter indoor rifle. Columbia Rifle Club, Inc., Paterson. John Berger, 447 Kearney Street, Paterson. (Following matches February 12-13, March 11-12, and April 8-9.)

New York, February 20—Annual Metropolitan League rifle. Metropolitan Rifle League, Inc. Austin A. Huffman, Valley Cottage, N. Y.

Ohio, February 15-March 15—Ohio Sectional Rifle. For program write H. D. Erk, 3066 Indianola Avenue, Columbus, (2).

STOLEN GUNS

Winchester Model 54 .270, serial number 15852, with 2¾X Hensoldt scope. Model B Hi-Standard, serial number not known. Notify Marcus Leupold, 4445 N. E. Glisan Street, Portland, Oregon.

booklet No. One. Then for the final finishing job booklet No. Three is recommended. The entire series is practically a must for anyone intending to take up stock making in a serious way.—A. H. B.

"Firearms Design and Assembly; The Shaping of Inletted Blanks and Alterations to the Winchester Model 70." 54 pages (8½ x 11) $2.10. T. G. Samworth, Plantersville, S. C.

"GUNNERMAN'S GOLD"

By HORATIO BIGELOW

From a half century of rich field experience with the scattergun, "Gunnerman" Horatio Bigelow shares again with kindred spirits his joys of yesteryear.

"Gunnerman's Gold" follows "Scattergun Sketches", "Flying Feathers", and "Gunnerman" into the bookshelves and hearts of sportsmen the country over. A story pre-told is a story spoiled and this reviewer sees no point in spoiling this good story. Read it as "Horashe" wrote it.

From recent trips with "Hal" Sheldon to Mattamuskeet he takes us to "stirring days in Seattle" during the Yukon gold rush. "Swine, swan and geese", ducks, turkey and "birds" (which is Southern for bob-white quail) are all included in the mixed game bag of "Gunnerman's Gold." Joe Sellinger even "killed a quart coming down the beach" to drive the cold from the marrow of his bones. Sportsmen will understand and sympathize.—C. M. P., JR.

128 pages, cloth, $7.50, Standard Publications, Inc., 910-914 Fifth Avenue, Huntington, West Virginia.

"BABES IN ARMS"

The tradition that the United States is a nation of "hot" riflemen was built in the days when most small boys had three immediate objectives: a dog, a gun, and a horse, in that order. The pattern of most small boys' lives has been changed by time, progress, and environment, but the tradition lives, notwithstanding.

Out at Central High School, fifty-six 'teenage boys belong to the Central Victory Corps Rifle Club. Twice a week they sharpen their shooting eyes to keep that tradition alive against the day when they may be shooting "for keeps" against their country's enemies.

The Club is eighteen months old, is affiliated with National Rifle Association. Many of the boys have qualified as pro-marksmen, marksmen, marksmen first class, and sharpshooters. The club was organized and is coached by Norman Henderson, R. Owen Sofko, and Sterling Ralston. (From the Cincinnati *Post*.)

REPORT FROM SAINT PAUL

April 29th will mark the fifteenth birthday of the Saint Paul Rifle & Pistol Shooters Club, Inc. Major Frank J. Drassal and Miss Elsi B. Marston, President and Secretary of the club, respectively, report as follows:

"We believe that the success of our club is largely due to its women members. The social activities they undertake in connection with our shooting events make new friends for the club and renew old friendships.

"The second reason for our success is our civilian marksmanship program. Our present class of eighty-three adults is just completing the sixteen-hour course. Graduation exercises consist of a match in which medals are awarded the fifteen high scoring women and the ten high scoring men, followed by the awarding of the NRA attendance certificates, a good luncheon, and dancing. We have conducted seven such schools, in all, during the past two years.

"The club also maintains a Junior Club which now has a membership of forty. Since many of our shooters use both rifles and pistols, we have two chairmen for all matches. The women also have a separate division of shooting activities and embarrass us men a good deal sometimes when we look at their scores.

"Many of our men and several of the girls are serving in the armed forces and all doing a good job. Some are also serving in the State Guard, to which we are indebted for the use of their Armory and equipment. We invite sportsmen to visit our club."

ON THE FIRING LINE

WITH THE PRE-INDUCTION TRAINING SCHOOLS

ANALYSIS

The Training Division has just made an analysis of the students enrolled and completing the courses of instruction offered in Small Arms Firing Schools registered with the Association and operating throughout the year. Although time did not permit a complete check of all reports received from these schools, fifty of these reports were selected at random from schools operated in different states and the analysis made from these representative figures.

The average Small Arms Firing School class begins with a registration of twenty-three individuals. Of this number eighteen completed the course of instruction and are issued NRA Attendance Certificates. Of the number issued NRA Attendance Certificates, 16 per cent had already been classified by their local Selective Service Boards as 1-A and 26 per cent were classified 3-A. Since that time it is reasonable to suppose that, under existing draft regulations, a majority of those classified 3-A at that time are now either classified as 1-A or already serving in the Armed Forces.

Another interesting study is shown by the age distribution of the students in these classes. Of the students 23 per cent ranged between sixteen and eighteen years of age; 10 per cent between eighteen and twenty; 21 per cent between twenty and twenty-eight; 30 per cent between twenty-eight and forty-five. Since the first three of these groups may be considered as containing a large majority of those eligible for military service we see that more than half of the students who have received instruction within these courses were between sixteen and twenty-eight years of age, a group which will certainly make a young and aggressive Army. Of course it is to be assumed that a fairly large percentage of the group between twenty-eight and forty-five years of age may have been inducted or volunteered for service prior to the lowering of the draft age limit.

Thus, this analysis shows that the organized training activities of the Small Arms Firing Schools have been reaching the persons for whom they were intended. The value of this activity as the contribution of the organized shooting game to the present war effort is proved. All clubs taking part have every reason to be proud of that accomplishment.

WAVES WANT RIFLE RIBBON

Eleanor Dunn, Chief Instructor of the basic rifle instruction classes for WAVE officers at Hunter College, Bronx, New York, reports the qualification of three officers as First Class Riflemen, one as Second Class, and five as Third Class. Only one failed to qualify and that only because of absence due to illness.

Colonel Walter X. Stanton, Commanding the Eighth Regiment, New York Guard, sponsored the school. Classes are conducted on the Eighth Regiment Armory range. Colonel Stanton presented the qualification awards and NRA attendance certificates.

Ensign Emily Walters, of Battle Creek, Michigan, Third Class Rifleman, later won third place in a basic rifle match given by the Long Island Association at the range of the Metropolitan Rod and Gun Club. The match was ten shots prone and ten standing. Ensign Walters scored 170, being tied but outranked for second place by Dorothy Bennett of National City Bank.

These girls were anxious to find out whether there is a Navy small bore qualification course that would enable them to win marksmanship insignia wearable on their uniforms. Apparently no such course exists. However, the course offered here was enthusiastically received and loyally attended and it is believed that such a course offered in the vicinity of other WAVE, WAC, SPAR, or Marine stations would be equally welcome.

Presentation of certificates and awards to WAVE targeteers at Hunter College, New York.

DOPE BAG ☆ ☆ ☆ Conducted by F. C. NESS

THIS MONTH:

Gun Caution · Old Military Rifles · Black Powder Arms · A .22 Manhattan · Jap-Sniping Outfit · Building a 2R-Lovell · Superb .219 Zipper · Gas Check Loads · Bullet Caution · Trade Dope · Letters.

BE CAUTIOUS WITH OLD GUNS

Reports of accidents with old guns continue to trickle in. Occasionally we hear of an old case-hardened military rifle or S.S. action letting go, and these brittle ones shatter badly when that happens. Sometimes it is a Model 1903 Springfield below serial No. 800,000 and stamped "Springfield Armory," or below 285,507 and stamped "Rock Island Arsenal." These are particularly dangerous when the headspace is excessive or when they are used with excessive experimental loads. While the weaker ones will let go with mild loads the heavier charge increases the potential and makes a more dangerous grenade of it when it blows. It is weak when the case hardening goes too deep and leaves no tough core, but only a brittle condition waiting to trap and maim the unwary shooter. Unless they have higher original numbers than those of the demarcation point indicated above, it should be assumed they lack the adequate strength and toughness of modern receivers or of those issued later. These brittle ones should not be fired without a long string tied to the triggers until they have been properly or adequately reheat treated, adjusted for proper headspace and proof fired. Should sources for this special service be unavailable, remember it is wiser to wait than to be sorry or to be too late to worry about consequences.

Another military rifle which shatters badly is the 7.62 mm. Russian because it is glass hard. Usually, not sometimes, it shatters when its margin of safety has been reduced by a conversion to the .30-'06 caliber. Beware of these! The Krag is case hardened but is rarely wrecked until it is converted to some other caliber and overloaded. When a cartridge lets go in the Krag the gas generally blows out to the right side and at the front end of its shallowly seated bolt with relatively little danger to the shooter. Some have been damaged by heavy handloads in the .22 Niedner Magnum (.25-35 necked down) caliber, and I have seen more than one Krag action and bolt cracked by the lowly .22 Hornet, although its standard load keeps its maximum pressure within the working pressure limits of the Krag action. The Krag can be reheat-treated, too, for greater strength and toughness. I have one in .22 HP Lovell caliber which has been proof fired up to 80,000 pounds by substituting a .30-'06 barrel for the test. Mistakenly or otherwise, I feel safer when firing full power handloads in it.

The military Ross rifle had a strong action but even its designer admitted, off the record, it was not fool proof because it could be fired with its bolt inadequately locked. I have never heard of a Model 1905 Ross in .303 British caliber blowing out its bolt; that is, until the Los Angeles *Times* of December 17th, last, told about its happening to Orman C. Rogers and striking him in the face. He was treated at the Pasadena Emergency Hospital, and C. C. McMichael, of that place, sent me the clipping. The military model had solid locking lugs and, usually, the receiver would not accept its bolt with the head slipped back into its dangerous nonengaging position. The sporting rifle Model 1910, issued in .280 Ross caliber, with interrupted-screw-thread type of lock, was notorious for blowing out its bolts into shooters' heads, although this was not true of all rifles in this maligned model.

The older military rifles of the black powder period are dangerous when improperly employed, or fired with smokeless loads. The well known .45-70 Springfield was wont to gaily blow its hinged breech block through the shooter's hat when his load of smokeless reached or exceeded 25,000 pounds pressure. Even with proper black powder loads some of the Civil War muskets open and unfurl their barrels along hidden seams. Some of the .30-'06 barrels made in war time for the Model 1917 rifle had flaws and imperfections which would develop when rechambered for the .300 Magnum cartridge. One of the most insidious of potentially weak barrels, if not the most dangerous, is the Damascus shotgun type with its laminated or twist construction. Because some of them are strong and most of them seem all right while identical duplicates have hidden flaws and incipient cracks, owners are tempted to try a smokeless load and continue shooting until they lose a few fingers or a hand. Beware these!

Be cautious with old guns, because it is dangerous to tamper with the margin of safety engineered into the design for the components and loads in vogue during the time of production. The powder, bullets, and loading methods of a later period can easily wipe out entirely that margin which was intended to protect the shooter from inadvertent mishaps and accidents with the older components and methods. The incautious shooter skates on dangerously thin ice. We have enough unavoidable accidents with standard loads and modern arms in spite of their superb design and ample strength without taking undue chances and courting disaster with the kind which may be avoided by the exercise of thought and judgment. To be wise in this matter requires no particular form of intelligence because plain old common sense alone should tell us to be extremely cautious with all old guns.

The Altered Manhattan Cap and Ball Revolver.

CONVERTED MANHATTAN C. & B.

We are showing a cut of an unusual .22 rimfire handgun. It weighs 32 ounces and the overall length is 11 inches. It looks like a Single Action Colt, but it is a converted Manhattan Cap & Ball revolver, originally a .36 caliber. Bill Johnson, of Georgetown, Colorado, did the job for himself using a Model 60-A Winchester barrel. From rest he got two groups at 50 feet which could be covered with a nickel and, on the regular indoor range, groups of 1 x 1½ and 1¼ inches. Using the same low cost .22 barrel as a liner in a Winchester S.S. rifle he got ⅜-inch groups from rest at 50 yards.

On account of the ammunition shortage, Bill has done all his small game shooting over the past two seasons with a Kentucky-type muzzle-loading rifle in .36 caliber which he made from Shelby tubing for the barrel. It was a ⅞-inch tube with ¼-inch walls and it cleaned up, with a square bit, to a bore diameter of .385 inch. Bill used an old .40-70 Sharps barrel as the master, or rifling guide, and did the job by hand on his lathe with a homemade rifling saw which he fashioned from scrap drill rod. That Sharps master guide gave it a turn in 20½ inches. The .36 caliber Colt round ball patched with two pieces of surgical gauze lubricated with saliva gives the best fit and accuracy. Of his two traced groups, one shows five shots in an inch, even, at 75 feet from sitting position and the other, all in one hole at 45 feet from rest. In cutting the rifling grooves Bill said bear grease worked fine in lieu of lard oil which he couldn't get. No photo available as yet.

DEAD JAPS BY PROXY

When Pearl Harbor was bombed Sgt. Lynn was 200 yards from his equipment, for personal reasons, and lived to see his sniping outfit suffer a direct hit from a Jap bomb. There are at least 130,000,000 others who dwelt in the United States at the time he wrote, but Sgt. Lynn singled me out and insisted I alone could replace his sniper with an adequate outfit. With that kind of confidence imposed in me, I was moved to the extent of sacrificing my favorite .30-'06 Winchester bolt action with special 4X scope and reticule. We had refined the good factory bedding until that outfit performed beautifully with M1 service ammunition, which was what the sniper wanted. My foreign friend, V. Korineck, had equipped my high grade 4X with a special reticule for both fine and fast shooting in all kinds of light and this also suited Sgt. Lynn. This was an improvement on the one I had installed by Dr. Hensoldt in my Dialytan, but on the same principle of a large quick aperture for night shooting with fine crosshairs in the center for long-range work in good daylight. I had imported the scope from Srb A Stys in Prague before the German invasion.

By the time my sniping outfit reached Lynn in the Pacific he was a Lieutenant, and so signed his letter of praise and thanks. The next time I heard from him was more recently, and the V-Mail letter was signed Captain Lynn. At that rate of promotion he should be a major at least by now. In that last one he said his whereabouts was not only a military secret but a blankety blank mystery. I expect to learn that he and his sniping buddy have sneaked upon one of the Jap-occupied atolls out there. The irony of the thing for the Axis partnership is that the sniping scope made for me within the present European fortress of the Axis is now employed in picking off their officers in the Pacific theater. Captain Lynn's first results were two Jap battery commanders and two others. He said they were easy shots.

HORNADY .22 BULLETS

J. S. Jackson, of South Bend, Ind., says we will soon have more uniform bullets made from fired .22 rim fire cases by Speer for Hornady distribution, as well as in greater quantity, owing to new installations and sets of progressive dies, which will speed the rate of manufacture. In his Maximum Lovell, Jackson finds the 45-grain size of these bullets gives only fair accuracy, or 5-shot groups of 1⅞ to 2 inches at 100 yards. His best load was 16 grains of No. 4227 and the W.R.A. No. 116 primer. With the 50-grain size he got better accuracy with 17¼ grains of No. 4198, or as good as he gets with the Sisk 50-grain Lovell bullet. The average 5-shot group was 1⅜ inches from muzzle and elbow rest with the Hornady bullet and from 1⅛ to 1¼ inches with the Lovell bullet.

SLOW GROWTH OF A RIFLE

Long before any local varmint shooter had a Sharps Borchardt rifle, Lucian Cary sold me on the idea of having a firing pin retractor installed and the action overhauled by George Hyde. That was back in 1934 and shortly after that I got such an action from the Far West Hobby Shop. Then George Hyde got interested in the 2R Lovell and came to Washington. He took my action back to Brooklyn with him. Some special Remington barrels were involved. These had a compromise twist of a turn in 15 inches. Col. Whelen was having one made up at the same time and Col. Sheldon also got one later. Whelen and I compared our stock designs and discovered they were practically identical. I bought some fine French walnut from Parker-Whelen Co., and John Hutton was to do the stocking. However, it took George Hyde several years to return the action and the original stock designs were lost in the meanwhile. I finally got the action in December, 1940 with Remington barrel and butt blank attached. George had done a beautiful job on the action and I forgave him for keeping it so long.

In 1941 we shot it enough with the rough blank to form cases in the chamber, but found the latter too small to take the custom loads furnished by J. B. Smith. Carl Nix kindly rechambered it, with his own finishing reamer, for the purpose and all was well. Al Barr worked down and finished the stock and blued the barrel and action. It is shown in its present state of development with brown Moon tip and cap and a brown No Slip butt pad. It is very accurate, but the comb and fore end still need modification for better appearance.

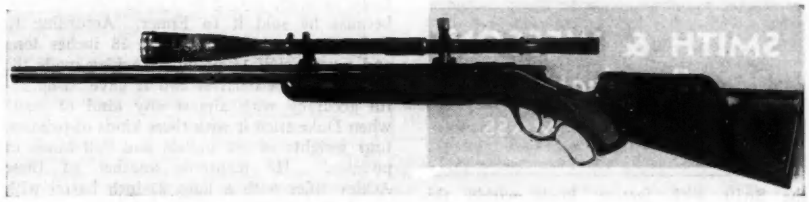
FINE S.S. ZIPPER

Dean Astles, from up Rochester way, says he has a standard factory repeater in .219 Zipper caliber which shoots as finely as any first class varmint rifle. I'm inclined to believe he is either kidding himself or is confining his judgment to one-shot cold-barrel groups. We finally got a top notch Zipper by having the Winchester factory chamber a Winchester singleshot for the standard cartridge, but have yet to see a Model 64 in this caliber group better than the reasonable average spread claimed for it by its makers. Now, I am glad to say, we have seen the finest Zipper on a Sharps Borchardt S.S. action, and the most accurate as well. Not only that, but it gave the finest grouping we have obtained in any caliber. The groups are just too small to be reported without pictures, and we are showing only the rifle itself this time.

Stanley Young, the owner, left it without saying much about it. He is a globe encircling pilot in the plane ferry business and, perhaps, that kind of job tends to make a fellow taciturn. In a roundabout way we finally learned Bill Staege, of Omro, Wisconsin, had made the Zipper for his own use but eventually sold it to Stanley who finished the job or had it completed with a stock and a scope. It has a beautifully decorated receiver or frame as the picture should show, and it shoots better than it looks.

MAJOR YOUNG'S STAEGE ZIPPER

We have decided not to wait for the cuts of the fine groups obtained with our .219 Zipper handloads in Stanley Young's Sharps Borchardt S. S., originally made by Bill Staege for his own use. They are too good to keep that long. The second load tried in that rifle, on the first day out, was 28.5 grains No. 3031 and the W. M. 50-grain 8S bullet. All ten shots went into ½ inch, center to center of bullet holes, at 100 yards. The next day out it started out better, with the first five shots in .48 inch. One was pulled in the next five, and it measured .62 inch. Another good load was 23 grains of No. 4198 behind the same bullet with 9 shots in .53 inch and all in .68 inch. This load was checked also on the next trip, the first five shots making .94 inch and the last five, .98 inch. Even 21 grains of No. 4759 sent this same bullet into groups of .96 and 1.08 inches in the first and only trial of this powder in that rifle.



The Staege-Young-Sharps-Borchardt shoots half-inch groups at one hundred yards.

CORRECTION BY HUBBELL

Last month we published some dope obtained from U. S. Hubbell and wrote to him for his explanation of the obvious errors in the incredible impacts reported. In his reply, just received, he says they were not only typographical errors but, in addition, his long hand script had been deciphered incorrectly, because other figures were wrong; providing we were both referring to the same piece of information, which even Hubbell doubts and now seems uncertain and almost as incredible as the quoted impact figures. His record books show, he says:

One load in the .257 Roberts was 19 grains of No. 2400 powder behind the Ideal gas check bullet No. 257418 (100 grains) and the impacts were 1¼ inches high at 100 yards and 36½ inches low at 300 yards; three were 36½, 37¼, and 38 inches low. The 117-grain M.C. bullet, with 37.5 grains of No. 3031, "dropped 7½ inches, 300 yards".

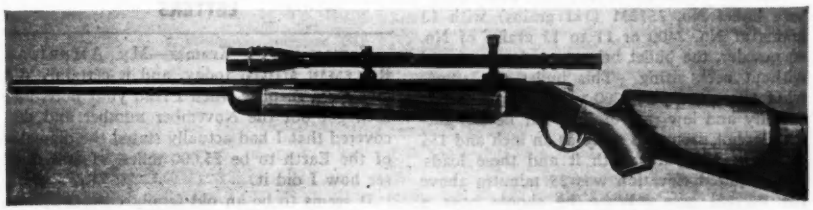
As a further check, before replying, Hubbell did some more shooting with 19 grains of No. 2400 behind an 85-grain bullet (No. 257312) with the zero impact an inch high at 100 yards. At 300 yards the five shots landed low by 35, 36, 37, 41, and 39 inches, he says, adding that all shooting was done from bench rest with muzzle and elbow support. And that's that.

ANOTHER .257 GAS CHECK LOAD

In the January Dope Bag we published U. S. Hubbell's dope on his pet gas check load with 16.5 grains of No. 2400 in the .257 Roberts. We have written him for the correct dope on his 300-yard impacts, as we think he meant feet or even yards instead of "inches" as quoted. Now, Philip Newcomb, of Manchester, Conn., reports finding a good accurate gas-check load with the same powder for the same cartridge. He used the Ideal 65-grain .25-20 bullet cast hollow point. He found it difficult to make uniform noses because the pin could not be kept sufficiently hot, and he had to cull out those with the most perfect points for his test. Using the W.R.A. No. 115 primer he tried two loads, above and below Hubbell's charge, shooting prone with sling at 100 yards.

The heavier load was 20 grains No. 2400 and Newcomb estimated it gave about 2600 f.s. It grouped well, but about one flier in every five shots enlarged the groups to 3 inches. He considered it to be entirely satisfactory for chuck shooting up to 150 yards, and it left only a trace of easily removed leading in the bore, but he elected the lighter 15-grain load for his field shooting. This load (2100 f.s. estimated) gave 1½-inch groups, including the first fouler from a cold barrel, and it required 10 clicks, or 5 divisions, elevation over the zero for the 100-grain factory load. He killed a lot of chucks with it and never lost any hit with it.

Newcomb also uses the .220 Swift and .22 Hornet and he found his mild lead alloy load in the .257 Roberts to be a more reliable chuck killer up to 150 yards than the 46-grain H.P. bullet in the Hornet, and just as effective as



The Hyde-Ness-Sharps-Borchardt in its present state of development.

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the Swift with factory loads within this range. Every shot proved to be reliable from the first to the last. Our own conclusion, supported by numerous reports, is that most of these .257 Roberts rifles give better accuracy, and sometimes much better, with lead alloy handloads than with factory loads. In fact, that is almost true of all these rifles and, at least, characteristic of this caliber.

The 15-grain powder charge also was the best one for the Ideal 100-grain pointed gas-check bullet which has been a pet problem of Newcomb's because of the inconsistent results he had obtained with it, groups ranging from perfect accuracy to 5 inches spread at 100 yards. Because the normal group and the fliers increased as the shooting progressed he assumed inadequate lubrication was responsible, which led to oiling each bullet just before firing when the normal groups consistently stayed within 1½ inches so lubricated or treated.

Another Newcomb load is the Ideal plain-base bullet No. 257231 (111 grains) with 13 grains of No. 2400 or 11 to 12 grains of No. 80 powder, the bullet being seated as cast and without neck sizing. This bullet tips somewhat over a range of 200 yards, owing to low velocity and low rate of spin, but he has gotten 10-shot groups as small as an inch and 1½ inches at 200 yards with it and these loads. The required elevation was 25 minutes above the normal zero. When he shoots over a crusty snow Newcomb finds his gas check cups within 40 feet of his muzzle, and he has found that the number of these separations usually agrees with the number of fliers he finds out of the normal group or groups for the same string of shots. This bit of evidence has led him to believe we should have better bases on our gas checks and to suggest a flat instead of a convex base for them as one improvement. Incidently, Newcomb uses 34 grains of No. 3031 and the 50-grain Lovell bullet in his .220 Swift and says it is a very accurate and reliable load.

AVOID BLOWN CORES

Too many shooters are converting the M2 or 150-grain F.M.J. military bullet to the expanding type for sporting purposes without realizing the core is exposed at the base and may blow out to leave the jacket in the bore as an obstruction. E. Hindeman, of Pelham, N. Y., suggests his method of protecting or covering such exposed bases as far safer. He tins the top of a .25 caliber copper gas check and sweats it to the metal rim of the bullet jacket around the core, letting the concave cup of the gas check stick out behind. He says he has never lost a core when so protected even when drilled or cut off at the point to insure expansion in game.

TRADE DOPE

Ackley Support. Member Duke Lamster, of Duke's Gun Shop, Pierre, S. Dak., refers to the item on Pop Eimer's fine target with the .22-.250 Ackley Mauser in our December Trade Dope column, saying he knows the rifle well because he sold it to Eimer. According to Duke, it has 1⅛-inch barrel 28 inches long and must weigh 15 pounds. Ackley made the special hardened barrel and it gave "wonderful accuracy with almost any kind of load" when Duke tried it with three kinds of primers, four weights of .22 bullets and "all kinds of powder." He mentions another of these Ackley rifles with a light 22-inch barrel with which he saw a 1⅛-inch 5-shot group made at 200 yards.

* * *

Military Rifle Parts, "in large stock and exceptionally good," are announced as available by Ad Forkey of the Alamo Gun Co., of San Antonio, Texas, who says, "I can furnish both Springfield and Enfield actions complete, in limited quantities."

* * *

Finds Fine Gunsmith. A. L. Hartung, of Pomeroy, Ohio, is praised unreservedly by Eric M. Farr, who sent him a 2R Lovell conversion job and got it back amazingly complete in equipment and workmanship to the finest detail, including a bullet seater and sizing dies for two different makes of cases, and all at a very reasonable price. Farr adds, "I don't see how he did it. The workmanship equals anything I have seen."

LETTERS

Correction by Kramar—My AMERICAN RIFLEMAN arrived today, and it certainly did give me a surprise when I read your note, and then got out the November number and discovered that I had actually stated the diameter of the Earth to be 25,000 miles. I still can't see how I did it.

It seems to be an old family custom among shooters to have an alibi for every wild shot, but the best that I can offer is that I had been out for a tour with Buck Rogers, and momentarily forgot what station I was broadcasting from. Of course I didn't have any reputation to lose, but I surely do feel mortified at letting you down that way.

Incidentally, using the value 4000 miles instead of 12,500 for the radius of the Earth, gives a velocity of 26,078 feet per second, which is quite a bit less than the 46,100 feet per second which I obtained by confusing the circumference of the Earth with its diameter. The value 26,078 ft. per second is still quite beyond the realm of present bullet velocities—D. G. KRAMAR.

* * *

Calibers And Gauges. I have been advised by Mr. Wallace H. Coxe, Chief Ballistic Engineer of the E. I. du Pont de Nemours & Co., that you would be willing and able to supply certain information and data that we have been endeavoring to obtain for some time.

We are desirous of obtaining literature and information in complete explanation of the confusing subject of "Caliber and Bore and Gauge." These terms are so frequently the subject of lectures and discussions in our outfit and such a variety of opinions presented that I am trying to get authentic data on them that will enable us all to clearly understand the exact meanings, methods of measurements and units of measurements.—H.L.B.

Answer. The elementary subject of caliber and bore designation was covered recently in the Old Coaches Corner of THE AMERICAN RIFLEMAN. In case you have access to files of THE AMERICAN RIFLEMAN I would suggest you look it up.

Roughly, the caliber of rifles and other rifled arms is the bore diameter in decimals or 1/100th of an inch and in some cases in millimeters such as 6 mm., 6.5 mm., 7 mm., 7.85 mm. and 8mm., etc. It is the measurement of the bore before it is rifled, or across the top of the lands, and is indicated by our figures: .22 caliber, .25 caliber, .30 caliber, etc. The measurement from the bottom of one rifling cut to another is called the groove diameter which is somewhat larger than the caliber or bore diameter, but generally agrees with the bullet diameter used. Thus, the .30 caliber military rifles have a .308 inch groove diameter and they use .308 inch or .30 caliber bullets. The same barrel from the top of the lands has a bore diameter of .300 inch which makes it a .30 caliber. Some of our newer calibers are exceptions to this rule in order to distinguish them from older calibers such as the .257 Roberts which has taken the groove diameter instead of the bore diameter to distinguish it from the .250 Savage, although both use the same bullets. The .30-30 and .300 Savage and .30-'06 are all .30 caliber and use the same bullet diameters and often the identical bullets. The cases are of different shapes, capacities and types, however, and the ballistics are different. The second figure in .30-30 designates case capacity in blackpowder grains, as the .30-40 Krag is larger case holding 40 grains and the .30-'06 would in the same manner be designated a .30-50. In the case of the .45-70-500 the third figure designates the standard bullet weight. The Cavalry cartridge was loaded with only 55 grains of powder and a 405-grain bullet and was called the .45-55-405.

In shotguns we use a different measurement entirely as they were designed to shoot round ball like the old musket or other smooth bores. The bigger the bore, the fewer number of balls which will weigh a pound. Thus, in the 12 gauge twelve balls which fit the bore will weigh a pound, and in the smaller 16 gauge it requires sixteen of such balls to make a pound and twenty in the 20 gauge up to the .410 bore which is not a true gauge but a caliber, although there is no rifling in the barrel.

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AMMUNITION CEILING PRICES

Under an OPA Amendment to existing regulations, effective Oct. 7, 1943, maximum prices of ammunition now apply to INDIVIDUAL sales as well as to sales at wholesale and retail. All metallic cartridges and shotgun shells are covered except handloads and military items. Ammunition ceiling prices as established by OPA are generally the maximum prices, (wholesale or retail as the case may be), in effect during March, 1942. A detailed list of such ceiling prices will be found posted in most sporting goods stores.

FIREARMS & SUPPLIES—GENERAL

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6½" WOODSMAN, PATRIDGE SIGHTS, HOLster, 250 cartridges, $40.00. Remington 241L automatic, 250 cartridges, $50.00. Remington 31-12, 30" modified, recoil pad, 100 shells, $65.00. Winchester .348 deluxe, 9 cartridges, $60.00. All excellent. John Porisch, Quinault, Washington.

FOR SALE—.22 TARGET GRADE I.J. 7½, 32 frame. Factory condition, 500 L.R.H.S. $32.50. 85, F.A. 33, 30-06 8¢ each. Want 1851—36 Navy Colt cylinder. G. W. Hogg, 4838—59th Place, Maywood, California.

WINCHESTER 63, BRAND NEW, SELECTED wood heavy new cowhide case, 500 kleancote with speed, $65.00. R. Patzig, Morton Grove, Ill.

WINCHESTER 94, 32 SPECIAL, LYMAN 56, 40 cartridges, perfect, $58.00. Wollensak 25X telescope, new, $22.00. 4X scope, micrometer mounts, good, $10.00. Late .45 F.A., 161 cartridges, $9.00. Lt. W. R. Franklin, 4316—4th St., North, Arlington, Va.

52 WINCHESTER, SERIAL 46862B, VERY GOOD to excellent. 48J and 17A, sheepskin case, sling, shooting coat, size 42, $75.00. Winchester Enfield never fired $40.00. Reblued 45 Colt Automatic and approximate 45 cartridges, $55.00. R. S. Hastie, 7832 Westwood Drive, Elmwood Park, Ill.

COLT 45 AUTOMATIC, COMMERCIAL MODEL, very good condition, $50.00. Robert Keneipp, Box 33, Paducah, Kentucky.

.357 S&W MAGNUM 6" EXCELLENT, HEISER carved belt, holster $135.00. .22 Colt Bankers Special, excellent, Heiser Holster $50.00. W. J. Brebach, 8643 So. Wood Street, Chicago, 20, Illinois.

SALE: B&M #26 TOOL COMPLETE, 357 CALiber, 38 special, 220 Swift, $13.50. Meepos 38 Special tool, $20.00. Meepos frame only, $10.00. Cradles for 300 H & H., 38 Special, 22 Hornet for B & M tools, $2.00, used 45 Automatic holster, 89¢. Warshal's 1st & Madison B, Seattle, 4, Washington.

.357 S&W MAGNUM, EXCELLENT, 6½ BARREL, humpback hammer, 200 rounds ammunition $110.00 money order. Life Member. 1st Lt. John Kandarian, Whittemore Ordnance Depot, Ayer, Mass.

PERFECT SPRINGFIELD MODEL 87M .22 Automatic, Garand Type, full stocked, sling, 4 boxes fresh factory L.R.H.P. shells, $50.00. S. M. Rhyneer, P.O. Box 205, Ft. Peck, Mont.

SELL—COLT D.A. 45. 25 WINCHESTER STAYNless, good $40.00. Want primers for 12 ga. super speed shells. Wm. Eisfelder, Pinckneyville, Illinois.

FOR SALE—LATE WINCHESTER 52 HB, EXcellent with 8x Winchester Scope, 500 L.R. shells $100.00. Late Remington 37, excellent with 15x Super Targetspot and 500 L.R. shells, $170.00. Ithaca Single Trap 4 grade, excellent $125.00. Ithaca Double F&M, excellent, $175.00. 22 Colt OM Revolver, Perfect, $57.00. 25 Remington Express, 117 grain $1.50 box. 7.63 Mauser shells, 5¢ each. 30.06, 1918 issue, 6¢ each. Isetts' Sport Shop, 1309—63rd Street, Kenosha, Wisconsin.

FOR SALE—A REAL OUTFIT, EVERY ITEM carefully selected. Model 37 Rangemaster #03947, Remington receiver, Redfield front, fired less than 1000 rounds. 2 detachable magazine boxes, Fecker 1½" 12½X, extra reticule. Super Argus spotter. Freeland deluxe stand. Badger twotone Kit 27" Hartmann rifle trunk. 10X Imperial coat, non skid pads. 10,000 rounds Palma ammunition. Accessories. Fecker scope good, all other items excellent, $450.00. Dr. B. R. Bell, 333 High St., Portsmouth, Virginia. Member.

FOR SALE—BUCHANAN AUTOMATIC .38 SPEcial reloading machine (loads 1000 per hour) with 1100 primers, 600 empty cases, 3 cans Bullseye powder, 2 cavity Bond bullet mold and Ideal lubricator & sizer, all for $100.00. S&W .357 Magnum revolver with Roper grips and shoulder holster, $75.00. Weaver 1X shotgun scope with mount, $20.00. Wm. F. Schutte, Benson Bldg., Beaver Falls, Pa.

REISING AUTOMATIC CARBINE MODEL 60 caliber 45 ACP. Brand new with 3 magazines, also 500 dependable .45 caliber Automatic reloads. (Can supply more reloads if desired.) First M.O. $90.00 takes. One .25 Colt Automatic excellent with box cartridges $31.50. Morrison, 322½ S. 6th St., Springfield, Ill.

O.M. 6" BARREL 22, ROPER SIGHTS, HONED action, walnut stocks, sheep lined case, perfect $95.00. O.M. 38 6" H.B. patridge sights, honed action, walnut stocks, factory box, sheeplined case. Excellent $75.00. Smith & Wesson 38-44, 5" barrel, perfect, $70.00. Colt Army Special, 5" barrel, excellent, $60.00. Solomon, 208 No. Wells St., Chicago. Ill.

EXCELLENT S&W .357 MAGNUM 6½ INCH barrel, humpback hammer, ivory stocks, 200 shells, $150.00. Excellent M. T. Woodsman, complete King precision job including full rib and click sight, regular and custom free pistol stocks, 500 shells, $100.00. Money order only. Life Member. J. W. Baker, Huntsville, Tenn.

32" S&W SIDE EJECTOR, SHOOTS LONG OR short, eleven cartridges, good condition, shot approximately twenty-five times, $50.00. R. O. Crawford, Gastonia, N. Car.

VERY GOOD IVER JOHNSON TARGET, SEALED eight, 145 rounds ammunition, $25.00. 3 pound wool sleeping bag, fair $15.00. Sheepskin coat, size 40, good $15.00. George Thompson, Box 161, The Dalles, Oregon.

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Under the Federal Explosives Act of 1941 *all* buyers, sellers and possessors of powder and primers (not complete small arms cartridges) must be licensed. Such license is usually obtainable from your County Court Clerk. Purchasers must submit their license, or a certified or photostat copy thereof, to the seller at time of sale.

SEND 12¢ FOR COPY ILLUSTRATED LIST COLT, other revolvers, pistols, flasks, moulds. Spot cash paid for one or one thousand. McMurdo Silver, Plainville, Conn.

BROWNING LIGHTNING O&U RAISED RIB, single selective trigger, Automatic ejectors, excellent, some shells included, $135.00. 220 Swift Custom L. G. Thomas job, H.B., set trigger, fair out, good in. Very accurate or refund. A-5 Scope, $115.00. George F. Ingersoll, Shreveport, La.

PERFECT COLT OFFICERS' TARGET MODEL 22 caliber 6" heavy barrel, revolver, 500 kleanbores $85.00. Stamp please. Jacob Mueller, Darlington, Wisconsin.

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SPECIAL SALE OF NEW AND USED SHOTGUNS and rifles. List ready. Stamp please. Kimball Arms Company, Woburn, Mass. tf

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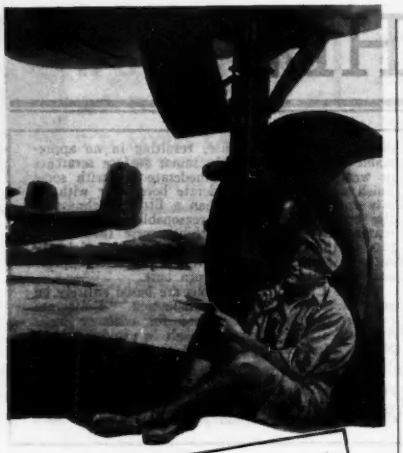
FOR SALE—PACIFIC BALLARD 22 LR, 28" NEW heavy barrel, no stock, center fire block, barrel fitted off center, $38.00. Another Ballard, plain trigger action, new 22 LR barrel, fancy stock and forearm, $60.00; Sharps Borchardt 22 LR 11 lbs., fancy stock, rebuilt speed lock action, new barrel, a top grade match rifle, $80.00. J. R. Buhmiller, Eureka, Montana.



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WINCHESTER 70, CALIBER 375 MAGNUM, 1½ boxes cartridges Ideal tool #10, $100.00. Target Model 70, Redfield Jr. Mount. 330 Weaver crosshair, 300 Magnum, 3 boxes cartridges case & extra hunting stock all very good $175.00. Extra large Elk-Head shoulder mount $150.00. Two Antelope Heads $35.00 & $50.00. All nicely mounted. Oliver Hocken, 2015 North 9th St., Phoenix, Arizona.

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S&W PERFECTED .22SS, 10" BARREL, TARGET sights, grips, leather holster, good, $50.000. Stevens Heavy Target Special .22SS, 12" barrel, $30.00. Iver Johnson .32, 5-shot, holster, $20.00. Winchester 52, slow-lock, unaltered, reblued, like new, $50.00. Remington .22 Musket, swivels and sling, stamped "American Boy Scout," new, $30.00. Western Field 20 ga. single barrel, bolt, $15.00. Custom Sharps-Borchardt Hornet, Sedgley barrel, unfired, $80.00. 50 12 ga. new, primed, 2⅝-in. brass cases, $7.50. Paul Ratliff, N4912 Market, Spokane, Washington.

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FRENCH .38 S&W REVOLVER SIMILAR TO Webley Ex. $15.00. Winchester 61 Ex. 22 repeater 100 cartridges $30.00. Colt Woodsman finely engraved English scroll, fitted box, Heiser carved holster, 200 cartridges, King reflector sight $100.00. R. Vail, Warwick, N. Y.

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SHOTGUNS RIFLES AND PISTOLS. W.W. Greener, 10 ga. double 150 shells and loading tools, $75.00, Charles Daly 3 barrel, 10 ga. and 38-55 caliber rifle, 150 shells and tools for both, $100.00. Belgium 10 ga. double, 150 shells, $25.00, Belgium 12 ga. double, 150 shells, $25.00. Single 12 ga. 125 shells, $20.00. Single 410 ga. 50 shells $15.00. Krag Sporter, 100 shells, $65.00, Savage 30-30, 40 shells, $25.00, Remington 22 Automatic loader, 400 shells, $30.00, Winchester Musket 22 caliber, 100 shells, $25.00. Colt Woodsman Target Model, 150 shells, all accessories, case $75.00. Luger 9mm. 20 shells, $45.00, Mauser, 32 automatic 40 shells. $25.00, Colt Special Police .38 Special, 300 shells, $75.00. George Brullesauer, 3957A Castleman, St. Louis, 10, Mo.

NEW WEAVER 330, $31.90; 440, $37.40. GOOD used 70 Swift, $75.00. Other items such as Remington .35 Woodmaster, 70-300 Magnum, custom Varminters, Swifts, National Match 45, Winchester 63. Send stamp for list. Gopher Shooters Supply, Faribault, Minn.

FOR SALE—WINCHESTER MODEL 40, 12 GA. Automatic, very good, 50 shells, $65.00, Remington Sportsman 16 ga. Automatic, good, 50 shells, $60.00, Winchester Model 65, 218 Bee, 29 S. scope, excellent plus, 100 rounds H.P. $75.00, Hi-Standard Model B, 4¼" barrel, excellent plus, holster, $50.00. .303 Savage Model 99 fair to good, 50 rounds S.P. $50.00. J. A. Kline, Malvern, Iowa.

"CROW CALLING" IS 20,000 WORDS OF DEtailed instruction in calling, shooting, trapping, bombing crows. Every sportsman knows fewer crows mean more game birds. $1.50 postpaid. Bert Popowski, 3408 Jones, Omaha, Nebraska.

.38 S&W SPECIAL, NEW TEST FIRED ONLY. 4 inch holster and Sam Browne Belt, 200 rounds fresh factory ammunition, $75.00. 7 Horse Twin Evinrude, very good, $80.00. 2 Welders Jackets size 40, $5.00 each. One Welders Waist length leather pants size 34 to 38 new never worn, $15.00. Will trade and pay difference for K.22 excellent to perfect or what have you. B. C. Holder, R.F.D. #1, West Palm Beach, Florida.

EXCELLENT LATEST REMINGTON 37 #03451 with Super targetspot 12X; 500 Experts; $150.00. Excellent except ¼ inch slight rust spot near muzzle; 37 Ithaca; 12 ga.; 26"; Imp. Cyl.; 2 boxes expert 6's; $60.00. Dr. George Fielding, Glens Falls, N. Y.

TROJAN PARKER, 20X26, 25 SHELLS FAIR, $45.00. No telegrams, John Burns, 776 Alter St., Hazleton, Penna.

SMITH & WESSON .32 HAND EJECTOR SIX shot 6" barrel, nickel plated, black rubber stock, excellent condition. First $30.00 takes it. Geo. Jones, Chillicothe, Ohio, R 5.

SAVAGE .32-40.99 GOOD, 80 CARTRIDGES, $40.00. Colt Police Positive .38 Special, 100 cartridges, excellent, $42.00. Colt Police Positive .32, 100 cartridges, excellent, $37.00. Stevens Pistol, 410 full choked, 25 shells excellent, $12.00. Want Bench Drill. Fred Herrick, Seeley Lake, Mont.

BAUSCH & LOMB NRA MODEL SPOTTING Scope, perfect, 19.5X. Extra 36.5X eyepiece, sheepskin zipper case, extension tripod, $75.00. Colt Ace, inside excellent, outside very good, King front sight, $75.00. Parker DHE double trigger, 12 gauge, 30 inch, both full., bore very good, outside good, $150.00. Winchester Model 40 Auto. Shotgun, skeet grade. Two barrels, one 30 inch full, other 26 inch with compensator and 3 tubes, both very good or better inside and out. Comb slightly lowered, stock good, recoil pad, $135.00. L. S. Hamm, 988 Market St., San Francisco, California.

22 VARMINTER ON SHORTENED ENFIELD action equipped with Lyman Alaskan, Lee center dot, all by McCrea about 100 full loads some empties, $175.00. GHE Parker 12-30 mod. & full, single trigger, beavertail forearm 5 boxes shells, $150.00. Will ship either COD subject to inspection. A. J. Backes, Langdon, N. D.

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Please bear with us if your copy of THE RIFLEMAN arrives later than you have been accustomed to receiving it. In normal times the magazine is mailed on a schedule providing for delivery during the first week of the month of issue. We still mail according to a plan designed to insure simultaneous deliveries throughout the United States; but the wartime strain on publishing, postal, and transportation facilities makes it impossible to guarantee normal deliveries. Only a return to normal conditions will remedy the situation. We beg your indulgence, therefore, and ask that you wait until the twentieth of the month before reporting non-receipt of the current issue.

32 CALIBER COLT POLICE POSITIVE, PERfect in, very good out, sheeplined, snap on holster, 2 boxes fresh ammunition, $50.00. Colt 4½ barrel, ventilated ribbed sight, 500 cartridges, $75.00. 32 shot drum magazine for Luger, box 9mm. shells, very good, $27.00. 38 Iver Johnson 6", $16.00. 10 gauge double hammerless, 2 boxes shells, $22.00. Ithaca 12 double, field grade, F.M. 30", V.G. 2 boxes shells, $50.00. Parker V.H. 12 double F.M. 30", good, 2 boxes shells, $50.00. Steven 20 gauge 3 shot repeater, V.G. box shells, $25.00. 25-20 single shots, Winchester, Stevens, barrels and action good, both, $25.00. Colt 44-40 New Service 7½" barrel perfect in, good out, $50.00. 06 ammunition F.A. 18 clean, 9¢, 45 ammunition F.A. 36, clean, 7¢, box kleanbore 45 automatic rim, $4.00. Camera, 6-20 Brownie Spec., perfect, $6.00 Saxophone Beusher Bronze Lacquer finish, E-flat Alto, perfect, new case and stand, $90.00. H. P. Klein, West Bend, Wisc.

S&W 44 SPECIAL 5" BARREL, PERFECT IN AND out, with 3 boxes of shells, $70.00. Colt .38 Special Police Positive 4" barrel perfect in very good out, 3 boxes shells, $55.00. 380 Remington Automatic, perfect in and out 30 shells, $45.00. Money orders only. Ray Randolph, 3943 Delaware St., Gary, Indiana.

44 SPECIAL S&W 5" BARREL, PERFECT INSIDE, better than good outside, blue, slightly holster worn, stag grips, holster, 194 cartridges, $60.00. M. B. Clapp, 119½ West Main St., Okla. City, Okla.

SELL—BRAND NEW ITHACA 37S 20 GA. 28" full, 2 boxes shells, $85.00. Harold E. Stoudt, 1504 No. 9th St., Reading, Pa.

6½ WOODSMAN SHEARD FRONT, KING OUTlined rear, grooved trigger, Myers Holster, 500 kleanbores, excellent in, slightly holster worn out, first $65.00 M.O. Want—.30-30, 250-3000 & .300 ammunition, Arthur Arnett, Rt. #2, Albion, Michigan.

500—30-06 AMMUNITION 36 TO 41 ISSUE 8¢ each. Also 44 caliber single shot pistol, good, $10.00. Stevens Offhand pistol, barrel pitted, $5.00. Inquiries answered. John McIntyre, Shirley, Mass.

SELL—MODEL 37 ITHACA 12-30 FULL CHOKE almost perfect with 5 boxes of shells, $71.50. Model 220 Savage 20 gauge, Poly Choke perfect condition with four boxes Hi-Velocity shells, $34.00. Government .45 Colt Automatic completely chrome plated in new condition with 94 Commercial and 100 Handloads, Ideal tool and resizing die. Everything is in perfect condition, $75.00. Ames 0" to 1" Dial Indicator Micrometer very fast and accurate, $18.00 Robert L. Shively, 205 Orchard St., Marion, Ohio.

12 GAUGE L.C. SMITH DOUBLE TRAP 32" barrels full, full single selective trigger, ventilated rib, Automatic ejectors, beavertail fore-end excellent leather case, $175.00. Luger 9mm. 8" barrel new Franzite grips good, 200 H. P. 50 F. P. Westerns, holster, $70.00. 38 Colts Auto. Navy Model 6" barrel fair new holster, 75 rounds, $30.00. No telegrams please. Jack Staggers, 5725 Wentworth, Chicago, Illinois.

SMITH & WESSON 22-32, EXCELLENT, NO SIGN of wear, $50.00. J. C. Johnston, Wooster, Ohio.

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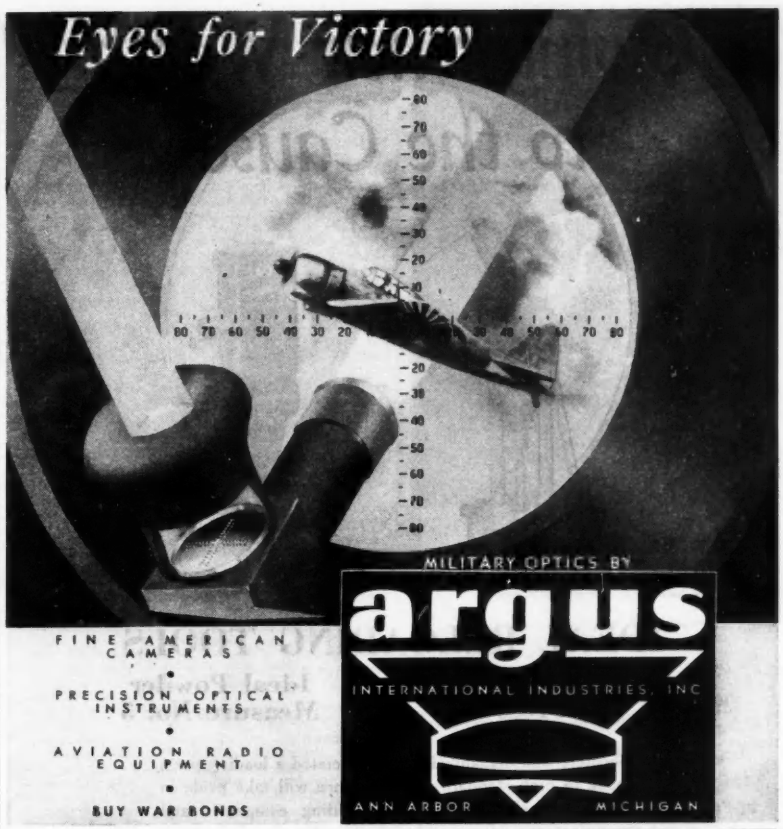
'92 WINCHESTER 32-40 TAKEDOWN, 26" octagon, 60 shells, V.G., $45.00. 1920 Savage .250-3000, Lyman 40 shells, V.G., $60.00. Colts 380 Auto, 50 shells. holster, V.G., $38.00, Colts 22 Bankers Special, holster, Excellent, $50.00. 2 Alumnium Photoflood Reflectors, excellent, $6.00. Kodak Flash Syncronizer, 2 bulbs, new, $8.50. H. D. Watson, 501 W. Springfield Ave., Champaign, Ill.

FOLLOWING BRAND NEW UNFIRED—.300 Savage EG, 40 cartridges, $100.00. .348 Winchester Deluxe 100 cartridges, $110.00. Browning Special 12 ga. 30" auto, 50 shells, $110.00. Winchester M12 12 ga. Magnum, 30", 100 shells, $110.00. Winchester M94 .30-30 carbine, $75.00. Marlin 36A, .30-30, $65.00. Michael Bratkowsky, 95 Balsam, Bridgeport. Conn.

S&W 38-44 OUTDOORSMAN WITH G&H BISLEY hammer, hand honed, excellent. Money order, $75.00. Lt. R. F. Koop, 3 Pemart Avenue, Peekskill, N. Y.

SAVAGE MODEL 219 HORNET RIFLE, NEW. 50 cartridges, $28.00. Savage 23D, Slowlock, Lyman 48Y, appearance v. g. otherwise excellent, 50 cartridges, $48.00. Savage 23D, slowlock, Mannlicher type, carved stock, v. g. no sights, 50 cartridges, $40.00. Latest Savage 23D Speedlock, Weaver 355, B mounts, sling, perfect, 50 cartridges. $65.00. Winchester 54 Hornet, Lyman 48, appearance v. g. otherwise excellent, 50 cartridges, $75.00. Stevens .410 .22 overunder, 100 long rifles, 25. .410's, new, $29.00. Springfield Sporter, low number receiver, Bishop stock, cheekrest, Lyman 48 rear, issue front, appearance good, otherwise excellent, $65.00. Robert Haelig, Boundbrook, N. J.



DCM SPRINGFIELD SPORTER 1367158, CHECKered, trimmed down stock, 2 boxes shells, very good, $90.00. Ithaca double FM, field grade, blueing worn, bore excellent, $55.00 4½" fixed front Woodsman with holster, excellent, $47.00. HB 52 Telescope height vaver extensions, detailed post card, $85.00. Fecker 4X 18" small game ¼ minute mounts excellent $40.00. Model 87, barrel 32-40 #3 excellent $15.00. Ideal Powder measure #5 micrometer $9.00. 120 rounds 1938 issue $12.00. 200 rounds 1918 issue no cracks $10.00. 600—172 gr. 9° boattail bullets $24.00. 100-110 gr. 30 Winchester HP bullets $5.00. 500—30'06 cases fired once 2¢ each. Ivan Olson, 710 No. 7th St., Manitowoc, Wisconsin.

GRIFFIN HOWE .257 ROBERTS SPRINGFIELD action #1356071 Alaskan scope, G&H mounts, ramp front, 48 rear, sheepskin case, excellent $175.00. Winchester 52 Sporter, Lyman 48, ramp front, G&H mounts, sheepskin case, excellent $70.00. Leica Model E 3.5 Elmar, 50 mm, everready case, 4 film magazines, Bewi Exposure meter, very good out excellent in, $75.00. Zeiss Zielklein perfect never mounted $65.00. .32 German D.W.M. Auto, similar Savage perfect, $22.00. .25 Ortgie excellent $20.00. .45 Gov. 1917 Colt Revolver perfect holster $60.00. All items money back guarantee. Earl Eby, 8 Clearview Terrace, West Orange, N. J.

S&W .45, 1917, EXCELLENT IN, VG TO EXCELlent out, holster, 100 rounds ammunition, $50.00; Colt DA 45 Army, 150 rounds ammunition, new blue job, excellent, custom fit walnut grips, fixed sights, ramp front, (sweated), honed action, perfect pull, new holster and cartridge belt, $65.00; Ithaca 20, double, single trigger, rear bead, excellent but for scratches on metal in front of trigger guard, 6 boxes good ammunition, $75.00; Winchester model 12 practically new barrel, good action, wood well used, 35 shells, $35.00. Want—Gunsmithing tools, tool steel, inside mikes, machinist square, die sinkers rifflers or what have you. Will accept or pay difference or get difference on any of above. Will hold items until 15th of Feb. before completing trades or sales. Orders with checks or COD instructions or items to trade receive preference. Bob Brownell, Montezuma, Iowa.

WINCHESTER 74 AUTOMATIC NEW AND 1000 .22 short cartridges $60.00. Krag as issued good and 40 new factory cartridges, $45.00. .22 Long rifle cartridges for sale. Trade 10 boxes 410 2½ in shells for Colt Ace. Shotgun, 16 gauge single, new and 5 boxes shells, $35.00. Harry L. Boggess, Liberty, Missouri.

NEW 30-30 WINCHESTER 64 DELUXE DEER rifle, 100 shells, $110.00. Dr. Joe Renouf, Kent, Ohio.

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This 4-way gauge is a one-piece, rigid instrument that will score quickly and accurately bullet holes of .22, .32, .38 or .45 caliber.

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NATIONAL RIFLE ASSOCIATION

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REMINGTON MODEL 31 SKEET 16 GAUGE shotgun with solid rib, same as new and 4 boxes shells, $95.00. 1 Savage Model 430 OU 12 gauge shotgun, same as new, 4 boxes shells, $69.00. Smith & Wesson 22-32 target pistol, fine shape, $45.00. Colt Automatic, 32 caliber, fine shape, $30.00. 1 Republic 7.65 Automatic good shape, $25.00. A. P. Satran, Fosston, Minn.

HI-STANDARD B 4½" VG TO EXCELLENT, Holster, 2 magazines, 100 rounds, Super X, $50.00. C. F. Johnson, 3914 Woodland Dr. Dallas 5, Texas.

L. C. SMITH HI-GRADE, 10 x 32 FULL AND full modern steel barrels, perfect, 50 shells, $95.00. Hollis 10 x 32, hammer double, modified and full, good, 50 shells, $25.00. Dougall 10 x 28 cyl. and cyl. double hammer, 50 shells, $25.00. W.W. Grenner, 10 x 32 hammer, two sets barrels, full & full, other pair open bored, trunk case, 100 shells, $60.00. Robert Haelig, Boundbrook, N. J.

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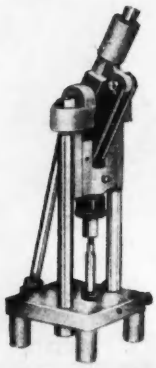

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MIDDLEFIELD, CONN.

The Lyman General Catalog, Free. Folders on all Commercial Products. Ideal Hand Book, 50 cents.

W&C SCOTT & SON, 12 GAUGE DOUBLE BARrel, hammerless, Italian Walnut stock with Scott's improved square cross bolt, automatic selective ejectors, glass inspection plates in locks, 28" Whitworth steel barrels, full and modified, made and engraved throughout by hand, gas checks from firing pins, pearl front sight with gold top, perfect inside, very good to excellent out, will send gun to members only, with examination privileges. Cost over $1000.00. Price $550.00. M. G. Snider, Belpre, Ohio.

MODEL 44 STEVENS SS .25-21, MARBLE FRONT and rear, Lyman Tang, 118 cases, Ideal Micrometer measure, moulds, tong tool, components, $50.00. Condition Fair. V. R. Bender, 558 East Greene Street, Frankfort, Indiana.

SAVAGE 99, .303 JUST REBLUED, NEW FACtory stock, barrel worn, but action perfect, 25 factory loads, first, $40.00. 32-20 Smith & Wesson Revolver, good to VG, round cartridges, consider pump or auto. shotgun. Carl Tolar, Natchitoches, La.

BELGIAN BROWNING AUTOMATIC 26" SOLID rib barrel, Poly Choke very good, $85.00. 1918 30-06s some split necks 4¢ each. Nelson Cole, Belvidere, Illinois.

FOR SALE—'06 CARTRIDGES 1918, 4¢ EACH, splits 3¢, .45 ACP Harpe accuracy, $70.00. Leica G, Summar new, $275.00. Eyemo Cooke F 2, $450.00. Zeil Klein Scope, $100.00. Euclid Miller, Rock Island, Tenn.

REMINGTON ROLLING FLOCK TARGET RIFLE, rare caliber 40-50, very good action and barrel, Vernier spirit level front, Vernier rear, checkered p.g. stock, 100 cartridges, primers lead, $25.00. Remington 45 caliber S.A. pearl grips, fair tight, $35.00. Fancy engraved & silver inlaid Arabian pistol 18 inches long, $30.00. Remington #4 rifle 22 caliber globe front Lyman rear fair, accurate, $10.00. Loading tools very good. Ideal #3, 38 Special, $4.00. Ideal #4, 40-60, $3.00. Winchester tool and mould 38 long Colt, $4.00. Winchester 32 Special mould, $3.00. 200, 357 empties, $4.00. Want Mauser 98 bolts. 50 caliber Remington S.S. pistol 220 Swift barrel, for Mauser 98. Charles Fluckiger, Clayton, N. Y.

WINCHESTER M52, MARBLE-GOSS REAR, 17A front, perfect, $76.50. Savage .300 M.99R, perfect, $70.00. Winchester M.71, caliber .348, 3 boxes cartridges, perfect, $81.00. Colt Woodsman .22 caliber, Pointer grips 6½", perfect, $45.00. Weaver 330 scope, new with 2 T Mounts, $35.00. Dr. Wallace C. Miller, 4 Bushcliff Rd., Winchester, Mass.

BROWNING OVERUNDER MODIFIED AND full, 28" ventilated rib selective single trigger automatic ejectors Hawkins pad outside very good inside perfect, $125.00 includes fair leather case. Model 21 tournament skeet, 26 barrels, selective single, beavertail and automatic ejectors, Winchester pad condition excellent to perfect, $140.00 includes good leather case. Officers Model Target 22, excellent, $69.50, includes spring shoulder holster. P. B. Pickle, 433 Coffeen Ave., Sheridan, Wyoming.

COLT .38 SHOOTING MASTER, TARGET SIGHTS, very good, $57.50. Roy W. Kelly, Box 28, R.R. #2, Godfrey, Illinois.

CATALOG JUST OBTAINED A COLLECTION OF 2000 Modern and Antique hand guns, send coin 25¢ for your copy. Ithaca single barrel, trap gun, grade 4, ventilated rib, beaver tail forend 32" full choke, auto. ejector, perfect condition, $95.00. Shot Gun Hammer Type Live Pigeon Gun by Wm. Ford, Custom made in England, 32" fluid Steel, modified and full choke, like new $125.00. Browning over and under 12 ga. 32" full choke barrels, ventilated rib, single trigger automatic ejector, like new $185.00. Browning over and under 12 ga. 30" full and modified choke barrels, matted rib, single trigger, auto. ejector, like new $165.00. Public Sport Shops, R-68, 13 So. 16th St., Phila., Penna.

WINCHESTER 70, 300 MAGNUM BULL GUN, factory new, 40 cartridges, 235 new Western primed cases, 450 bullets, 300 primers, 3 lbs 4064, $125.00. Harvey L. Rumaner, 520 Beattie St., Syracuse, N. Y.

SAVAGE M720 AUTOMATIC 12 x 30 FULL, very good, $75.00. Ithaca Field 20 x 26 modified goods, $50.00, Ithaca Field 12 x 30 M/F good, $50.00, L. C. Smith Trap grade double 12 x 30 M/F Single Trigger excellent $100.00, Savage M220.P Single 12 x 30 Polychoke recoil pad excellent $22.00, Winchester 1907 SL Automatic 351 good, $65.00, Winchester M64 .32 Special very good, $65.00, Winchester M86 33 WCF Walnut pistol grip stock Lyman receiver rear good, $50.00, Winchester M52 .22 LR Lyman 17A front Lyman 48 rear speed lock very good, $75.00, Winchester M75 target .22 LR excellent, $40.00, Remington pocket model 380 ACP custom reblued very good $30.00, S&W K-22 honed action excellent $70.00, Colt Super 38 sheepskin holster perfect $75.00, Colt Army Special 32-20 custom reblued walnut Franzite grips excellent $42.50, Colt Police Positive 38 special excellent $48.50, many others. List. Stamp. Ed Howe, Coopers Mills, Maine.

FOR SALE—8MM. DANZIG SPORTING MODEL, Redfield receiver, check rest stock, hooded ramp front sight, 22" barrel, excellent $90.00, Winchester Model 55, takedown 30-30, 20 rounds hunting ammunition, new $87.50, Remington Model 14, 35 cal. pump, 20 rounds ammunition, excellent $95.00, 30-06 Springfield Sporter, Stoeger conversion, Redfield receiver, check rest stock, 20" barrel, excellent $70.00, 30-30 cal. Savage, Super Sporter, strap and swivel, 20 rounds hunting ammunition, $67.50. Send check or money order. Frank A. Efinger, Boundbrook, N. J.

WINCHESTER MODEL 1912, 20 x 26, MODIfied excellent, 50 shells, $60.00, another 16 x 26, appearance v.g. otherwise excellent, 50 shells, $60.00. Remington 31, 20 x 26, latest Poly Choke, appearance v.g. or better, otherwise excellent, 50 shells, $75.00. Remington Sportsman Automatic, 12 x 26, latest Poly Choke. Beavertail forearm, perfect, 50 shells, $100.00. Remington Model 32 overunder, 12 x 28, improved cylinder and modified, selective single trigger, automatic ejectors, appearance v.g. or better, otherwise perfect, 50 shells, $140.00. Ranger (Marlin) overunder, 12 x 30, modified and full, appearance v.g. or better, otherwise perfect, 50 shells, $50.00. Browning Lightning overunder (not latest model), selective single trigger, automatic ejectors, appearance fair or better, otherwise excellent, 12 x 28, improved cylinder and modified, plain rib, 50 shells, $100.00. Belgium Browning Automatic, five shot model, appearance v.g. or better, otherwise excellent, 12 x 28 full, 50 shells, $100.00. Robert Haelig, Boundbrook, N. J.

WINCHESTER SINGLE SHOT .22—FALLING Block High Side Wall Diller Stainless Steel lining. Test targets tube sight with Redfield Aperture front. Bore perfect, and other metal parts excellent. Stock good, $38.00. Money order. Lt. Geo. Hawkins, Piquette Armory, Detroit, Michigan.

WINCHESTER 70, 7MM. 48 REAR. EXCELLENT $75.00 Eleven boxes ammunition, $1.50 box. 6mm. Lee straight pull Navy rifle. Original bayonet and sling, excellent, $25.00. Four boxes ammunition, $2.00 box. William Hake, 17 Forest Lane, Scarsdale, N. Y.

GOVERNMENT MODEL 45 CALIBER AUTOmatic recently overhauled by Colt factory, new barrel, excellent except very slight blue wear, $65.00. Colt Match Target Woodsman, perfect, $75.00. First Money Order. Major E. P. Livingston, Sumner, Iowa.

HI-STANDARD, 6½" B. SHEEPSKIN, 5 CLIPS, excellent in, v.g. out, $45.00; S&W 10" straight-line v.g. $35.00; 52 standard, speed lock, beautifully checkered, excellent, $70.00. John Baughman, St. George, Utah.

MODEL 70 WINCHESTER STANDARD CALIBER 270 rifle, Weaver 29S scope, sling and Bond loading tool, all perfect. 484 rounds including 310 factory loads, and primed cases, bullets and powder to make 174 rounds. $160.00 cash. Forry G. Neal, 413 Dorsey Ave., East Point, Georgia.

EXCELLENT WINCHESTER 70 HORNET CHAMbered for Mashburn Bee, Lyman 48, drilled and taped for Redfield Junior Mount new Ideal Tool and neck die, 90 reloads, 180 bullets, 200 primers, 60 empties, $120.00. May take 70 in larger caliber in exchange. Hans Lafrenz, 1702 West Tonto, Phoenix, Arizona.

CALIBER 25-35 SAVAGE MAUSER RIFLE weight 11¾ pounds, has heavy 23" barrel and Bishop stock, has #438 Lyman scope, will guarantee better than one inch groups at 100 yards, with 140 loaded cartridges. Rifle in almost new condition, $90.00. Caliber 250-3000 Model 70 Winchester target model, fitted with 29S Weaver scope with Lichert ⅛ inch objective, this rifle is new will guarantee better than one inch groups at 100 yards, 220, 87&100 grain cartridges go with it, $190.00. Will sell without scope if interested. 22 LR Tell Target Pistol, new condition price, $100.00. Send self addressed stamped envelope for a reply. Lawrence Nuesslein, 3011 Greenleaf St., Allentown, Penna.

WINCHESTER MODEL 12, 3" MAG. 12 GA. full choke, very good, $110.00. 12 ga. Winchester 21 double, full, cylinder 28" barrel, selective single trigger, selective ejection, condition excellent inside and out $110.00. 12 ga. LeFever double model, 5 and full condition very good $50.00. Remington 12 ga. Automatic, 30" barrel full choke, raised rib, blueing and inside barrel perfect, $90.00. Fifty shells with each. 30-30 Winchester, very good, twenty shells, $50.00. 40-65 Winchester, good, 18 shells, $25.00. Field glasses 3½ power, $25.00. W. L. Nash, 2387 Yajome St., Napa, Calif.

52 HB, PERFECT INSIDE, EXCELLENT OUTside, Lyman sights, 1000 .22 LR $70.00; Ansco Camera 3¼x5½ F. 7.5 leather case, good $11.00. B&L 6x25 binoculars, case, good $23.00 or trade for 12 ga. shells. Ray Pendleton, 904 So. 10th, Corvallis, Oregon.

BROWNING 3 SHOT 16 GAUGE, HAND ENgraved, matted rib, recoil pad, 26 improved cylinder bore, barrel excellent, $75.00. S&W Military & Police 5" barrel, hand engraved imitation Ivory grips very good nice belt & holster $65.00. Several others particulars on request. J. F. George, Callao, Missouri.

WINCHESTER MODEL 70 HORNET WITH Fecker 8 power scope mounted, excellent, 250 Remington Kleanbore soft point cartridges, all for $195.00. Winchester Model 52, speed lock, previous Model, select barrel by Eric Johnson, target by Johnson, factory sights, scope blocks, excellent, 500 Kleanbore $60.00. Joseph Stashak, 29 W. Somerset St., Raritan, New Jersey.

LATEST MODEL 45 COLT COMMERCIAL AUTOmatic absolutely factory perfect outside and inside has King "Sweet" trigger pull, with extra magazine and 100 rounds ammunition. $92.50. T. W. Hoopes. 219 East Scarritt St., Springfield, Illinois.

220 SWIFT, M-54, INSIDE EXCELLENT STOCK scratched somewhat, fired less than 100 rounds, Junior Targetspot and 48 Lyman. About 200 loads. $150.00. J. Bushnell Smith, C.M.M. U.S. Naval Receiving Station, Quincy, 69, Mass.

SELL—EXTRA FINE CUSTOM STOCKED WINchester 70, 300 with cartridges, $159.00; Winchester 71, .348 with cartridges, $85.00; both brand new, E. W. Billings, Hinton, W. Va.

FOR SALE—WINCHESTER MODEL 70 .220 Swift, standard, with Noske 4X Sniper scope. G&H mounts, Horn tip, Ivory spaces. Pistol grip cap, 240 factory loads. All work done by G&H perfect. $190.00. J. L. Fricks, Life Member, Albertville, Alabama.

MODEL 71 DELUXE WINCHESTER PERFECT except rear sight altered to flat top, 5 boxes .348s, sling $93.00. Excellent 94 Winchester 30-30, 3 boxes factory ammunition, 1 reload, $55.00. Colt .38 special official police 4" blue, perfect, trigger shoe, grip adapter, Myers F.B.I. holster, 3 boxes reloads, shoots possibles $71.50. E. S. Cornell, Charlestown, N. H.

S&W .38 SPECIAL M&P, 4" NEW, PERFECT, factory box, target action, cartridges, Myres Border Patrol holster, $57.50. Ben Vaupel, Mt. Vernon, Indiana.

8 GAUGE L. C. SMITH, VERY GOOD, DOUBLE barrel hammerless with 185 loaded shells, $125.00. Richard Krueger, West Side Cash Store, West Bend, Wisconsin.

EXCELLENT 38-6" SPECIAL COLT OFFICERS' Model, patridge target sights, Franzite grips, Lawrence holster, 100 rounds, $58.50. 45 Colt Automatic, perfect in, excellent out, Franzite grips, holster 100 rounds, $60.00. Very good to excellent Colt 45 Bisley, Lawrence holster, stag grips, 50 rounds, $47.50. J. L. Shull, Tyler, Texas.

FOR SALE—WINCHESTER 86—.33 W.C.F. TAKEdown, good out v.g. in, 40 factory cartridges. $55.00. Winchester 52 H.B. speedlock, sling, 17A factory rear, excellent, 1500 match cartridges. 105.00. Winchester 54-270, 48 rear folding middle, sling, pad, checkered, v.g. out excellent in, 100 factory cartridges $110.00. Browning overunder 12-28 S.S.T., rib, I cylinder & modified excellent, sole leather case $145.00. Winchester 54-220 Swift Deluxe, excellent, 100 factory cartridges, $140.00. Remington 30 express .25 caliber Lyman 48, scope bases, perfect in, near excellent out, 160 factory, 35 reloads, 60 empties, 1M primers, 100 bullets $110.00. Remington 31-12-32, full, pad, excellent $70.00. Winchester 54-30-06, 48, sling, N.R.A. stock, perfect in near excellent out, 100 factory 180 gr. $125.00. Krag Carbine, issue, good $35.00. Winchester 74 automatic, 22 short, perfect $30.00. Colts 45 Automatics, issue, good $45.00, very good $50.00, excellent $55.00. Luger 30 caliber 11¾", with forend grip, squeezer safety, v.g. in excellent out $95.00. Colts D.A. 38 Special 3½", very good $35.00. Colts Official Police 6", perfect $60.00. S&W 22-32 6" excellent $48.00. Colts O.M.T. 38 Special 4" excellent, holster $65.00. B&L Drawtube, Freeland stand, excellent $45.00. Pacific dies, 38 Special wadcutter $15.00 Pacific tool 30-06, complete, H.S. perfect $26.50. Powder scale, like Pacific $6.50. Weaver scopes, T mounts, 440-330-29S-355, list. Lyman 48W $10.00, Lyman cocking piece sight for Mauser $7.50. Hensoldt 6x42 JAGD, v.g. out optically mechanically perfect, case $125.00. Wanted—B.L. Zephyrlight 8x30 or 7x35, Zeiss Lightweight 8x30. Hornet empties. 270 Pacific dies. Herman Treptow, Milltown, N. J.

CUSTOM 22 LOVEL C. C. JOHNSON, HEAVY barrel, Springfield action, excellent, fired 153 rounds, 153 empties, 260 primers, 260 Sisk bullets, 40 loads by Smith, 1 lb. 4198 powder. No. 28 Belding Mull loading tool complete, home made scale with Pacific weights. Guaranteed accurate. Telescope blocks. no sights. $100.00. Smith & Wesson Service 45 caliber with 45 loads, some empty, 5 clips, excellent. $50.00. Have 300, 45 caliber Colt and 550, 22 shorts. Will trade for .22 long rifle match ammunition. Vion 33X scope with astronomical eye piece. $30.00. C. P. Quidas, 212 Waitman St., Morgantown, W. Va.

.38 SPECIAL COLT O. M. H.B. PERFECT $70.00. Same slightly holster worn, $60.00. Automatic Potter duplex reloading machine .38 caliber $55.00. #12 Schmitt reloading tool .38 caliber $25.00 Potter little gem reloading tool .45 caliber $15.00. Potter electric furnace model D $12.00. #1½ Western pistol primers $10.00 per 1000. Want—S.A. Colt .38 Special, must be perfect. Charles Hecht, 3405 Alto Road, Baltimore, Md.

M 70 SUPER GRADE HORNET, 440 WEAVER. Griffin and Howe mount, barrel excellent, outside v.g., 300 bullets, 2 lbs. 2400#, 250 empties, 106 cartridges, new Pacific tool, $225.00. L. C. Smith field grade 12-28 F.M. good to very good, 12-28 F.M. $55.00. Tom Mott, 152 W. Seneca St., Oswego, N. Y.

SALE—.45 S&W D.A. 1917 ARMY REVOLVER. condition good with some finish worn. Two sets Automatic clips. 25 shells, $40.00. Byron Slater. Oak Hill, W. Va.

COLT .45 AUTOMATIC GOVERNMENT MODEL mechanically and barrel perfect, some blueing worn. tooled holster, 115 cartridges, $65.00. Weldon Pavitt. 1502 East High, Jefferson City, Missouri.

30-06 SUKALLE SPRINGFIELD BULLGUN L'JUtic Star Stock bases, no metallics, v.g. out, excellent in, $90.00. 6½" Woodsman, near perfect, plain holster $50.00. D.W.M. Luger 30, box soft points holster excellent $42.50. Good muzzle loader $25.00 45-90 Single shot hi-wall, 8 cartridges, fair $15.00. Lyman 1A $4.50. King ramp, post, reflector, front hood $5.00. (not band). Want—70 Hornet with cartridges, Zeiss 8X binoculars, Woods 3 star robe. J. W. Latham, 749 Chipeta, Grand Junction, Colorado.

FOR SALE—1873 WINCHESTER .32-20 RIFLE. tang peep and sling swivels, good out, fair to good in $22.00, ammunition $2.00. 1862 Springfield .58 M.L. rifle, complete and shootable, fair $6.00. Spanish .32-20 revolver, good $8.00. H. E. Newton, 20 Chestnut St., Kane, Penna.

SAVAGE 219 HORNET WITH NEW WEAVER 329P scope, barrel perfect, good outside, 50 loads. $28.00. Ranger .22 caliber barrel cut to 24 inches. perfect in, good out, Pacific rear peep, Lyman front. sling, $25.00, five boxes Palma match with rifle only. $2.50, Marlin 12 gauge hammer pump, good condition, box ammunition, $16.00, Stevens Browning. Model 12 gauge hammerless pump, very good in and out with new Weaver choke, $50.00, Mossberg Spot Shot scope, new condition, with stand, $32.50. Sheepskin shooting glove, large size, new, $1.00. R. J. Houtz, Elburn, Ill.

300 SAVAGE RS, VERY GOOD LYMAN TANG sight, sling, 30 kleanbores, $95.00. 219 Savage 30-30, perfect. 80 kleanbores. $35.00. Hi-Standard 4½" perfect, holster, extra clip, 500 kleanbores $55.00. E. C. Cody, 1109 North 28th St., Billings, Mont.

PRACTICE FOR AN R. C. A. F. PILOT

"I am a New Zealander, serving with the Royal Canadian Air Force. I have hunted throughout New Zealand and hold the record for the biggest wild boar shot to date. This beast fell to my .22 Marlin rifle, from 40 yards. This rifle is looked upon as the most accurate and long-lived rifle now in the hunting circle."

S——— H———
N.Z. 416819 R.C.A.F.

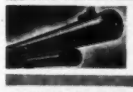
Thank you, pilot. The sport you enjoyed and which, God willing, you will follow again, has prepared you well for still bigger game across the seas. Marlin wishes you good hunting!

THE EST. 1870 **Marlin**

FIREARMS CO., New Haven, Conn.

★ Turn in your old shells and cartridges to local scrap collection. Metal is urgently needed for war production.

SAFETY...Rugged solid top receivers and safe side ejection are famous safety features of lever-action Marlin Rifles.



ACCURACY...Marlin rifle barrels —of all models; lever action, clip, tubular magazine — have deep-cut "Ballard" rifling.

DEPENDABILITY...Marlin Gun actions are noted for simplicity, for positive, reliable performance in the field.

FOR SALE—WINCHESTER 21, 20 GA. SKEET, straight grip, single trigger, ejectors, Beavertail, new condition, 5 boxes skeet loads, $150.00. Dr. E. B. Donlsin, 1115 Vine, Paso Robles, Calif.

REMINGTON MODEL 30SL, 30-06 EXCELLENT, leather case, box shells, $100.00, 348 deluxe, excellent, box shells, case $95.00, Ithaca 37S, 16, excellent, leather case, $100.00, Lemaire binoculars 8-10-12, case, excellent, $90.00, Colt 45, Belt, holster, good, $45.00, other arms, dime for list. Ray Ferringer, Mayport, Penna.

S&W MAGNUM .357, McGIVERN TARGET sights, 6½ inch barrel, Magnum grips, excellent, holsters, belts, ammunition and many extras. Price $140.00. Write for details. Stamp please. L. G. Pratt, 8 Hillside Road, Wellesley Hills, Mass.

BINOCULARS, HENSOLDT ARTILLERIE, CENter focusing, 8x24, case, good out, excellent optically, mechanically, $45.00. Latest Belgian Browning 12 Automatic, 28" full, excellent with 75, 6s $85.00. Want—Target scope, 8 or 10x. C. H. Cubbedge, Orlando, Florida.

REMINGTON TWENTY AUTOMATIC, 28, RIB, choke barrel, ivory sights, pad, 100 shells, very good, $100.00. Ralph Owen, El Dorado Springs, Missouri.

WINCHESTER 52HB, SCOPE HEIGHT VAVERS excellent, with 10x leather zipper case. $80.00. S. C. Madden, Grayville, Illinois.

WINCHESTER M54, 30-06 REDFIELD RECEIVER, excellent $65.00. Woodsman 4½" perfect factory box, Heiser holster, 500 fresh super X.L.R. $60.00. Roy Grandlund, Fergus Falls, Minn.

54 WINCHESTER HORNET, LYMAN 48 SLING, good, $50.00, 32 Colt New Police, fair $15.00. 950 Winchester 116 primers, $9.50, no trades, Art Olson, R.#2, Clayton, Wisconsin.

MATCH TARGET WOODSMAN EXCELLENT, 500 LR, $75.00, .38 Special S&W, Target King sights, factory recondition new barrel, reblued, excellent, one box mid-range cartridges, $65.00. Riner D. Duncan, 502 Tyler Ave., Radford, Va.

FOR SALE—257 ROBERTS, MAUSER ACTION, 330 scope, Turner mount, 145 rounds ammunition, one old stock, one Bishop inlaid Mannlicher stock, fired less than 300 rounds. $150.00. Frank McFarland, Box 264, Lincoln, California.

SPRINGFIELD N.M. #1, 497,257 AS ISSUED, excellent, sight covers, $90.00. 30-06 ammunition. 1938-1940 issues, in boxes, $6.00 per hundred. 30-06 empty cases used once, 50¢ per hundred. Terry Arseneau, Washburn, Wisconsin.

BISLEY TARGETS, 38-44, 7½ GOOD, 250 rounds ammunition, Ideal tool, primers, bullets, moulds, $75.00. Hi-standard "B" 4½, perfect inside, good outside, holster, $40.00. 98 Mauser, 24" barrel, very good inside, good out, ramp front, sporting rear sight, remodeled stock, 19 shells, $36.00. Complete descriptions for stamp. Evin Armstrong, Box 99, Camden, Michigan.

WINCHESTER STANDARD MODEL 70, 270 caliber, brand new, never fired, slightly used in dry practice, excellent to perfect condition, gold bead front sight on glare-proof ramp, 48 W.J.S. Lyman rear, also Weaver 440 with Lee dot and Redfield Jr. Mount sling and 580 fresh factory loaded hunting cartridges. First money order $225.00. f.o.b. Atlanta. R. I. Gibbs, 70½ Edgewood Ave., N.E., Atlanta, Georgia.

22 MATCH TARGET, ROPER, $85.00, 32 OFFIcers' Model, Short action, Bisley hammer, honed, $85.00. Both excellent. .38 Colt, King rib, Pachmayr hammer and trigger, $100.00. Blue worn, 45 Auto, complete Harpe job, match barrel, Sanderson stocks, excellent, $100.00, 357 Single action, pearl, 22 Single action, Sedgley, ivory, both excellent, $100.00 each. 380 Colt, nickel, stag, very good, $50.00. 30 Remington pump, good, shells, $60.00 William D. Joiner, 129 W. Court Street, Gainesville, Florida.

COLT ACE, BLUE SLIGHTLY WORN, OTHERwise perfect, 100 Super X, $70.00. John Finnegan, Bessemer, Michigan.

SMITH & WESSON K-22, PERFECT, PACHmayr, hump-backed hammer Magna stocks, fine Bauer holster, $75.00. Russ Kaser, Warsaw, Ohio.

SELL—2R LOVELL, HI-SIDE ACTION, ⅞X26" barrel, good, accurate, 438 Lyman scope, 117 rounds ammunition, $75.00. No sale before 10th. J. R Thompson, Burt, Iowa.

WINCHESTER 70, SWIFT, TARGET GRADE, 7? and 48, blocks, sling, keeper, 58 cartridges, fired twice, perfect, $150.00. Ithaca #5, 12 ga., 32" mod & full, ventilated rib, beavertail fore-end, selective single trigger, automatic ejectors, ivory sights, recoil pad, fully engraved, near perfect, $225.00 Browning Lightning, O&U, 12 ga., 26", skeet boring, automatic ejectors, rib barrel, recoil pad, very good $80.00, or will trade for Winchester Model 70, super grade 30-06 or 270 outfit, Fred Hendrickson, P.O Box 201, Central Village, Conn.

WINCHESTER 25-35, S.S. 30" #3 NICKEl steel barrel excellent, target sights, single set trigger loading tools, cartridges, bullets, primers, powder $100.00 for outfit. Also 32-20 Bisley 7½", original very good, $50.00, stamp please. David Schemnitz 2731 No. Prospect, Milwaukee, Wisconsin.

WINCHESTER S.S. 2R, #3 BARREL, NO SIGHTS blocks, complete reloading set, and components $75.00. Winchester H.B. Model 52, excellent, Marble-Goss rear and Vaver front sights, 500 LR $90.00 Kipling, B. Pellett, 2421A Benton Ave., Granite City, Illinois.

FOR SALE—30-30 SAVAGE, 219 SS, PERFECT 40 rounds, $40.00. Western dbl. dbl. triggers, excellent 50 shells $50.00. Savage 219 SS 25-20, perfect 50 rounds $40.00. Woodsman 6½, excellent, $60.00 Remington 241 L.R. excellent 25 rounds, $60.00 Stevens dbl 12, excellent 50 shells, $50.00 money orders. Ed Lynch, 114 South Bradfield, Compton, California.

K-22 OUTDOORSMAN, PERFECT IN, EXCELlent out, Heiser holster, $55.00, express collect. Max Mandel, 106-16, 107th Avenue, Ozone Park, New York.

EXCELLENT COLT MATCH TARGET, ROPER sights, complete .45 caliber Automatic Dotter, Mossberg spotscope and Freeland stand, full particulars upon request. A. L. Terhaar, 6425 Cross St., Jacksonville, Florida.

UNFIRED LATEST MODEL 720 REMINGTON 270 caliber ammunition, extras, write for details. Perfect 25 caliber Colt Automatic, 1 box ammunition $35.00, 1917 S&W 45, excellent in and out, 40 rounds ammunition $50.00, Model 30 Remington 25 caliber (not Roberts) perfect in, excellent out, 48 Lyman Q.D, Swivels, case, cleaning rod, ammunition, $95.00. New Service 45 Colt, perfect in, excellent out, ammunition $45.00, 4" Official Police perfect in, excellent plus out, 100 wad cutters, $50.00. Emil McConnell, Mt. Arlington, N. J.

CATALOG #23 DESCRIBING OVER 1500 BARgains 25¢. Modern and antique firearms, accessories, war relics, binoculars. 6 x 30 Voigtlander $70.00. 10 x 46 Busch, $95.00. 8 x 26 LaVista $52.00. Brand new 45-70 Springfields $18.50. Plenty ammunition $2.50. 45 Colt $7.00 hundred. 45 Auto $6.50 hundred. Springfield Service Rifle $60.00. Springfield Sporter $95.00. Engraved 22 cal. Wurfflein Target $42.00. Engraved 32-40 Wurfflein Target $54.00. 32-20 Stevens #44½ Match, #6 barrel, DST, $58.00. Excellent 44 Special S&W target $64.00. 38 Special M&P $50.00. 38 Special OMT $60.00. Excellent 45 Auto. $58.00. 32 Colt Auto, fair, $27.00. Excellent $35.00. 32 Savage Auto $32.00. Excellent Luger $62.00. Many Frontiers, Automatics, C&B Revolvers, Muzzle Loaders, Kentuckies, Commando Knives. New Trench Knives, $3.50. John Smith, Rambler Ave, Runnemede, New Jersey.

COLT'S SUPER 38, PERFECT, KING SIGHTS, adjustable, serial #12, Silver alloy grips, 2 extra clips, holster, clip case, 3 boxes Kleanbore $80.00. Model 92 Winchester 32-20, factory job special order, 24" round barrel open sights, select walnut for-end and pistol grip stock, steel buttplate, all finely checked, 2 boxes kleanbore $65.00. Money order only. J. R. Higgins, 113 Warwick Road, Dewitt, New York.

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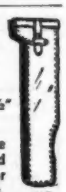
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WINCHESTER 54 HORNET, LYMAN 48, EXCELlent, 150 factory cartridges, $95.00; 2 Winchester 54 standard stocks with butt plates, $10.00 each; 1,000 Hornet empties, 2 cents each; Lyman 438 scope mounts, regular, $4.00. Money orders only. Paul Maier, Middlefield, Conn.

.300 MAGNUM, DUBIEL HEAVY 26" BARREL, Springfield 1488826 action, Sedgley stock, G&H quick detachable scope mounts. Lyman 48, very good 20 loaded, 35 primed cases, $120.00. .32 Auto Colts. new barrel, fair, $15.00. Ocean City Reel (250 yards) 2 short rods, $10.00. Vern Summers, 4912 Union, St. Louis, Missouri.

KRAG SPORTER, CUSTOM STOCK, OIL FINISH 22" barrel, ramp front sight, Redfield rear, excellent 120 rounds, $65.00. Ed. Weilepp, 631 W. Prairie Ave., Decatur, Illinois.

NEPTUNE FOUR HORSE EXCELLENT, USED two seasons only, model 4A 39. F.O.B. $75.00. Absolutely perfect Model 241 Remington Speedmaster, 22 short, fifty rounds, $45.00. 39 Marlin 22 lever, perfect inside, good out, 100 rounds, $38.00. Issue Springfield with sling 50 rounds, good over $50.00. Good 38 Police Positive, six inch, box of ammunition $35.00. Colt 45, 1917 about new, very tight, 50 rounds, $45.00. Colt 45 fair, side rod ejector, double action only, very long trigger, six inch, 100 rounds. $25.00. Stevens 621, 12 pump, good 32" barrel, very good 28", both raised rib, each has separate forearm, box #4, $60.00. Consider offer on either barrel. 94 Winchester takedown 30-30, 20 rounds, Action and wood good, barrel poor, $24.00. Stevens 44½, 32 rim, excellent in good out, poorly mounted 4 power Mossberg scope, rear peep, $45.00. Filioino Barong excellent $15.00. 25-21 Stevens Scheutzen, perfect inside, set triggers, very good out, beautiful stock and engraving. $65.00. 36 rounds 40-70. $5.00. Name trade on following junk. Prefer Colt Frontiers or percussion Colts. Want—good 25-20 Remington slide, Baker pat, three barrel gun, double ten over 44. Poor, Five miscellaneous swords. Wreck of pieper 10 gauge, 44 rifle combination. Three wrecked doubles, hammer. 10 cheap old revolvers. Member. Ira J. Moody, McGregor, Iowa.

FOR SALE—45 COLT GOVERNMENT MODEL Automatic, fair $50.00, also one very good $60.00. Colts 32 Automatic, excellent with 14 rounds ammunition $35.00, Colt 380 Automatic, very good, with shoulder holster $38.50, 22 caliber Iver Johnson, sealed eight, 6" barrel, new $47.50, S & W D. A. 45 caliber revolver, 5½" barrel, good with new shoulder holster $50.00, S & W 32 hand ejector, 6" barrel, nickle plated, black grips, new $40.00. Send check or money order. Frank Efinger, Boundbrook, N. J.

BROWNING SWEET SIXTEEN (MADE IN BELgium), 26", ventilated rib, three shot model, few slight scratches on stock, otherwise excellent, 50 shells, $165.00. Winchester Model 97, takedown, 12 x 26 cylinder (factory job, not sawed off), v.g., 50 shells, $50.00. Winchester Model 42, 410 x 28, modified, perfect, 50 shells, $50.00. Ithaca 37R (plain rib), 12 x 26, latest Poly Croke, excellent, 50 shells, $95.00. J. P. Sauer & Son, double hammerless, modern steel barrels, 12 x 30, modified and full, appearance good, otherwise excellent, 50 shells, $100.00. Robert Haelig, Boundbrook, N. J.

FOR SALE—LATE MODEL EXCELLENT REMington 37, Remington iron sights, Lyman 5A scope, Argus 20 power spotting scope & stand, shooting coat, glove, shell block, plywood carrying case. All complete $210.00. Joseph Bonner, Nowata, Oklahoma.

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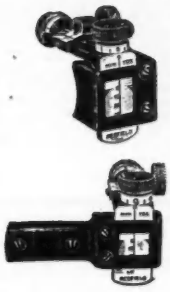

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EXCELLENT WOODSMAN, 4½", 6½", 500 CARtridges, $65.00 each, .38 Super, $65.00, cartridges $2.00 box, 1911 .45, good outside, perfect inside, cartridges, $60.00, .32 Savage, .25 Colt's Automatics, $27.50 and $22.50, 61 Winchester .22 pump, 500 cartridges, $35.00. Prices FOB. Money Orders. No Trades. Stamp for reply. Don't remit until asked. Norman M. Hill, Box 27, Jacksonville, Florida.

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.300 MAGNUM, ENFIELD ACTION, CUSTOMED by Chet Paulson, Alaskan scope, Redfield Senior mount, cocks opening, beautifully stocked, 40 hunting loads, 9½ lbs., perfect, $215.00. Match target Woodsman, perfect, $70.00. Two standard Woodsman, 6½ very good, $40.00 each. Model "E" Hi-Standard, King rear and action, very good out, excellent in, $65.00. Sgt. W. F. Day, Police Hdqtrs., Seattle, Washington.

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RIFLE MODEL 70 WINCHESTER .30-'06, sheepskin case, shoulder strap, Lyman .48 W receiver sight, 100-180 grain factory, ammunition, 100, Military ammunition, 100 primed cases, 100 primers, 100, 172 grain bullets, 5 lbs. powder, Pacific reloading tools. Gun near new condition, $225 for outfit. Model .70 Winchester Caliber .284 Magnum Dufeil barrel, Hensoldt scope, sheepskin case, shoulder strap, shockpad, 1000-8½ GNM-NC primers, 1000, 140 grain soft point bullets, over 100 cartridges, 4 lbs. powder, reloading tools, gun near new condition, $325 for outfit. Perfect .30-30 Savage 99 G, 6 boxes new 170 grain soft point ammunition, $100 includes sheepskin case. Very good Savage .22 high-power, 5 boxes shells, $50.00. New Model 63 Winchester .22 automatic, carton shells, $55.00. New Model 141 Remington .22 repeater, carton shells, $48. Used but perfect Winchester Model 63, .22 automatic, Lyman Tang peep sight, carton shells, $50. Used but excellent Winchester Model 63, .22 automatic, with .330 Weaver Scope, carton shells, $85. New L. C. Smith double field grade Magnum chambered 12 gauge, $75.00. Winchester Model 12-12 gauge trap grade, extra good, $75. Winchester Model 12-12 gauge, extra good, $55.00. Ithaca 10 gauge double magnum chambered, 2 boxes Magnum, shells, 5 boxes regular shells, $100. 2 Winchester Model 97, good 12 gauge, each $25. New Winchester Model 97-16 gauge, 10 boxes shells, $100.00. New Winchester Model 42-410 case shells, $100.00. Stevens double 12 gauge high pressure barrels, hammerless, good, $22.00. Mohawk double 12 gauge high pressure barrels, hammers good, $18.00. Single barrel Savage 12 gauge, hammerless, near new, $15.00. Officers' Model Colts .22 target pistol, perfect, $65.00. New Colts Frontier .22 caliber, $65.00. Used Colts Frontier, perfect, .22 caliber, $55.00. Colts .45 caliber, New Service, will use 45 automatic shells, perfect, $55.00. Colts .45 automatic, very good, $45.00. 3 boxes 765 Mauser rifle, $10.00. 9 boxes 25 Remington automatic, $25.00. 3 boxes 32 Remington automatic, $10.00. 3 boxes 7mm rifle, $10.00. Col. Nack Miller, 101 Ranch Trading Post, 205 South 1st, Ponco City, Okla.

45 CALIBER "GOVERNMENT MODEL", COLT'S automatic, reblued, new barrel, unfired, new parts, new walnut and staghorn grips, 150 rounds, Remington "Targetmaster" cartridges, 100 rounds regular cartridges, leather holster, $65.00. Fred J. Galyon, 1012 Fairmount Ave., Bristol, Virginia.

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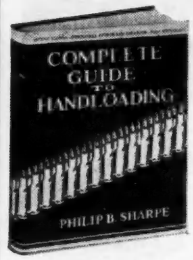

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K-22 LATEST MODEL, MAGNA GRIPS, KING sights, shoulder holster, 200 shells, all new condition, $80.00. Colt .38 Special Officers' Model, 7" barrel, 100 reloads excellent, $75.00. 52 Winchester, regular lock, 17 A front, folding leaf rear good, accurate, 500 shells, $47.00. 32-40 high side Winchester, no sights, $19.00. Will trade. Want—Evinrude Ranger, Zephyr Johnson, 2½, 5, 10 alternate 40 to 42 motors. Raymond Leonard, R.R. 2, Box 313, Lansing, Mich.

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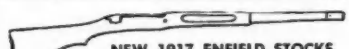

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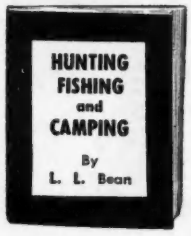

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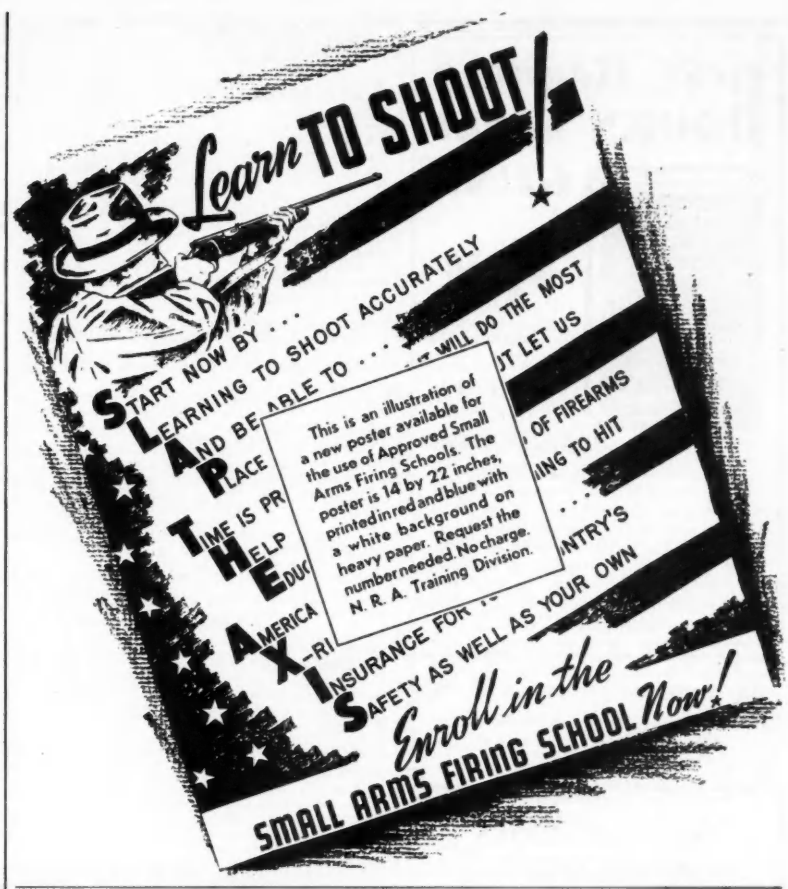
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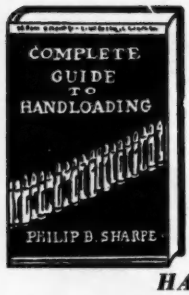

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WILL PAY FIFTEEN DOLLARS FOR KRAGS IN fair condition. Want Colt Dragoons and Derringers. Two 30 caliber Lugers in very good condition. $38.00 each, one with spur removed. Louis Drolet, Richland, Michigan.

WANTED—ISSUE SPRINGFIELD 30-06 HIGH serial, excellent, give detail and price. Abe Neff, R. F. D. #1, Arcanum, Ohio.

WANTED—PARKER DHE 20 GA., EXCELLENT to perfect, 28" barrels, selective single trigger, beavertail fore-end, pistol grip, skeleton steel butt plate, ventilated rib preferred, give price, stock dimensions, boring, weight, serial number and complete description. Russell Mullin, 615 Hillcrest Rd., Beverly Hills, California.

WANTED—MATCH TARGET WOODSMAN, WILL pay $85.00 for accurate, perfect mechanical, late number, with good sheeplined holster. Inspection privilege. John G. Campbell, 346 W. Jarvis, Hazel Park, Michigan.

WANTED—WILL PAY GOOD PRICE FOR Model 1888 Mauser Carbine. Must be very good to excellent both inside and out. State price. Write or wire collect to Dr. Russell C. Smith, Box C, Barron, Wisconsin. 3-44

WANTED—WINCHESTER MODEL 70 STANDard grade or target model in 30-06. Also Winchester Model 71 deluxe and ammunition. Also Marlin 39A. Cecil Garner, Phelps St., Painesville, Ohio.

SIDE & SIDE DOUBLE, 12 GA. 30" M&F PROOF tested steel, standard make, Ithaca preferred, auto. or plain ejectors, perfect inside, stock 1½ x 2, mechanism perfect. Price must be very reasonable. Give full and exact description. Dr. W. E. Goll, Cameron, Missouri.

WANTED 300 SAVAGE 99R OR 99RS AND ammunition, excellent or perfect; Hornet components; Sell Wollensak 25X spotting scope, excellent and Ball & Ball stand $30.00. Harvey Worthington, Glen Mills, Penna.

WANTED—.25 CALIBER COLT AUTOMATIC Army Officer wants extra weapon for overseas duty. State condition and price. Lt. William T. Barnes, 957 Sig. Rad. Int. Co., Camp Pinedale, Fresno, Calif.

WANTED—25 CALIBER 87 GRAIN BULLETS for Roberts will also trade 500, .22 L.R. for 400 Large Rifle primers in sealed cartons. Also want good 30-30, prefer Winchester carbine or 218 Bee with ammunition. Arthur Pulscher, Flandreau, S. Dak.

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WANTED—ITHACA 10 GAUGE MAGNUM WITH shells. Also binocular 7x50, 8x30, or 8x40 and Hornet cartridges. Mel Leitch, 130 Linden Ave., Glen Ridge, New Jersey.

PRIVATE PARTY WANTS PERFECT TARGET Woodsman or Hi-Standard with ammunition. Complete details first letter. C. G. Wright, Woodstock, Illinois.

WANTED—REMINGTON MODEL 720-270 CALIber action and barrel in excellent condition. R. Vinton Beall, Central Point, Oregon.

WANTED—10 GAUGE MAGNUM SHOTGUN, state price, make, weight and condition. R. L. Dean, Rt. #1, Yuba City, California.

WANTED—REMINGTON RANGEMASTER, OR Winchester 52, with 10X or better target scope. Prefer combination but will buy separately. R. J. LaMiller, Box 529, Tracy, Calif.

MODEL 99EG SAVAGE 300 CALIBER 22 OR 24 in. barrel Lyman or Marble rear peep sight must be good for cash. A. B. Kail, 304 Hart Ave., Minerva, Ohio.

WANTED—WINCHESTER OR REMINGTON Caliber 270 or 257 Roberts, 30-40 reasonable, Colt 45 Frontier. For Sale 45 Colt Automatic very good, $49.50. Willard H. Campbell, Campbell Hall, N. Y.

WANTED—SLIDE ACTION REMINGTON, 30-30 caliber, 24 inch barrel must be good for cash. A. B. Kail, 304 Hart Avenue, Minerva, Ohio.

WANTED—WINCHESTER 1895. 30-40 CALIBER solid frame must be like new. State price and describe fully. Examination required all letters answered. Lloyd Schneider, Rt. #1, Sterling, Colo.

WANTED—NEW SINGLE 28 GAUGE 28" BARrel and 4 and 6 chilled shot shells. Also nice village home for sale fine condition. Jorgen Johannessen, Life Member, East Barre, Vermont.

WANTED—SHARPS NEW MODEL RIFLE 1866 for metallic cartridge or earlier model. J. Omar Cole, Peru, Indiana.

WANTED—FOR CASH 16 GAUGE DOUBLE, 28" barrels, auto. ejectors, mod & full choke new or perfect. State Model, make & price. F. M. McComas, 4909 Edmondson Ave., Baltimore, 29, Md.

WANTED—WINCHESTER CARBINE 25-20—20" barrel, full magazine. State price and condition. Edward Marsh, 75 Queen St., Bristol, Conn.

WANTED—ONE TO THREE EACH, 22 AND 270 caliber carbon steel tubing for barrel drills, plain or V'eed, would consider complete drills. For Sale—23D Savage Hornet, excellent $40.000. A. P. Kusnefsky, Florence, Kansas.

WANTED—12 GAUGE FULL, 28" REMINGTON Model 31, perfect or excellent. Cpl. Henry Cilles, 28 A.B. MacDill Field, Fla.

WANTED—30-40 KRAG RIFLES, PLEASE DEscribe fully. Henry Faul, Cortez, Colorado.

GOOD OR BETTER KRAG, OR ENFIELD, OR Springfield for remodeling, wood no object. Also 30-40 full length resizing die, 30-40 empty cases. E. L. Rogers, Harvard St., Wenatchee, Wash.

WANTED—7.65 LUGER, NEW OR STOEGER Model, very good, holster, ammunition. Bogdonoff, 317 Lee, Hampton, Virginia.

WANTED—PISTOLS, ALL KINDS, 22 TO 45. Pay up to $75.00 and more for S&W 357 etc. Hawn, Box 52, Alhambra, California. 5-44

WANTED—MUZZLE LOADING TARGET RIFLES. Also Ballard, Stevens or Winchester Scheutzen Rifle. T. J. Cooper, R. 7, Meadville, Pa. 2-44

.220, .257, 6.15 & 7mm. BLANKS & BARRELS, wanted, new. Will consider excellent & better. Shivell, 4323 Sunset, Los Angeles, 27, California. tf

WANTED—.44-.45 FRONTIER COLTS OR REMington. Robert Abels, 860 Lexington Ave., New York, 21, N. Y. 1-45

WANTED—10X IMPERIAL SHOOTING COAT size 44, Remington Pump 16 gauge and shells. H. E. Magnan, O. D. 410 Main Street, Watertown, Wisconsin.

WANTED—30-06 SPRINGFIELD OR ENFIELD as issued, also Bayonets, Robert Abels, 860 Lexington Ave., New York, 21, N. Y. 1-45

WANTED—FOR CASH SHOTGUNS, RIFLES, PISTols and Revolvers can use all makes and types. Describe guns fully in first letter, state price, all mail answered. Big Ben Mercantile & Loan Co., 179 Third Street, San Francisco, California. tf

COLLECTIONS OR SINGLE PIECES PURCHASED at fair prices. Give full description. Kimball Arms Co., Woburn, Mass. tf

WANTED—FAIR PRICES PAID FOR TARGET Pistols, Revolvers, Rifles and Antique Guns of all kinds. Ship for estimate. Public Sport Shops, Dept. R-68, 13 So. 16th St., Phila., Penna.

WANTED—ONE PERFECT U. S. SPRINGFIELD Receiver only, 30-06 caliber, above #1,280.000. R. T. Shinquin, 371 Beale St., Wollaston, Mass.

WANTED — 25 REMINGTON AUTOMATIC rifle, accurate, outside not particular. 22 Kit Gun S&W or K-22, same condition. Roy Bakkum, Waukon, Iowa.

WANTED—M70 WINCHESTER 30-06 with either peep or low powered telescope sights, very good or better, state full particulars in letter. Ray V. Chase, 510 Tudor St., Toledo, Ohio.

WANTED—12 GAUGE LEFEVER, SINGLE, FULL choke, hammerless 28 or 30" barrel, excellent or better. Wm. H. McArthur, R.D. #5, Mt. Pleasant, Michigan.

WANTED—351 WINCHESTER S.L. RIFLE, FAIR to good. F. A. Baker, Donnelly, Minn.

WANTED—EXCELLENT .257 ROBERTS, .219 Zipper 30-06 and 10 Gauge Magnum. Cash or will trade new Noske 4X scope with mounts. Ralph L. Druehl, Wendover, Utah.

WANTED—S&W MAGNUM, TRIPLELOCK OR target, Savage .250-3000, double with ejectors. Pacific tool, dies, powder measure, scales, components. Samuel Anderson, Morland, Kansas.

WANT—HIGH GRADE ENGLISH OR BELGIUM 16 gauge double, must have following specifications; 28" barrels, six pounds plus, ejectors, top safety, straight stock, about 2½ inch drop. Charles Stetson, 1429 Niagara St., Denver, 7, Colorado.

WINCHESTER 64, DELUXE, .32 SPECIAL, 20" barrel, excellent to perfect. Lt. W. R. Franklin, 4316—4th St., No., Arlington, Virginia.

WANTED—LARGE RIFLE PRIMERS, 7 X 50 binoculars, metal lathe up to 12" swing, fired cases of all calibers, state make, condition & price. L. E. Turley, Logan, Utah. 2-44

WANTED—LEFT HANDED BOLT HI-POWERED rifle, Johnson 2½ and 9⅛ hrsp, state model and condition. Pflueger Supreme reel and Toledo True Temper rod. Stanley Post, 612—4th St., Niagara Falls, N. Y. 2-44

WANTED—MODEL 70, .270 OR 30-06 WITH OR without scope, super grade preferred, for cash or will trade 5.8 H.P. Champion outboard or 8 x 30 Busch Solar binoculars. Lloyd Raab, Vashon, Wash. 2-44

WANTED—PIGEON GRADE BROWNING OVER-under excellent, ventilated rib. John Robertson, 470 Granville, Vancouver, B. C., Canada. 2-44

SELL YOUR SINGLE SHOT RIFLE TO "SINGLE-Shot" Ratliff, N4912 Market, Spokane, Wash. Describe fully and quote price. tf

WANTED—OFFICERS' MODEL 38 AND 22 CALIBER or Shooting Master, describe conditions fully. Will trade small or large pistol primers. Jorgensen, 933 So. Hauser Blvd., Los Angeles 36, Calif.

WANTED—WINCHESTERS M70, .250, .257, 30-06, consider scope equipment. M94 30-30 carbine, M95, .405, 24" solid frame types only, ammunition, components, full particulars please. Wanted—bullets, 50 grain Wotkyns-Morse for Swift, 86 grain .25 caliber, 100 grain .270. W. H. Janssen, Nokomis, Illinois.

WANTED—KRAG CARBINE MODEL 1898, REMington Enfield 1917 Springfield, in excellent condition as issued. Will buy or trade. Richard Laurie, 63 Norwood St., Greenfield, Mass.

WILL PAY REASONABLE BUT NOT HOLD UP prices for M70 .257 Roberts, tools, 330 Weaver, II mounts. L. E Jones, Black River Falls, Wisconsin.

WANTED—LATE 52, STANDARD OR HEAVY barrel, in perfect condition. Lyman 48 preferred, also ammunition. Lt. (jg) Harry Jackman, 510 Sasco Hill Road, Fairfield, Conn.

WILL BUY OR TRADE FOR PACIFIC SCALES & weights, Redfield Jr. for Mauser & Weaver 29S, 100 or 130 grain .270 bullets, or 224 bullets. Have N.M.N.C. 116 primers few 100 grain .257 Lyman A5. Stanley Fairly, % Citizens National Bank, Waco, Texas.

WANTED—LATE EVINRUDE ZEPHYR OR RANger outboard with Simplex starter. Remington 513T with 8X scope. Complete description and price. M. H. Crawford, 1900 Eddy St., San Francisco, 15, Calif.

WANTED—22 VARMINTER, WILL TRADE M70 K-Hornet or cash. George Fuller, 3064 California St., Huntington Park, California.

WANTED—MILITARY ACTION AND '06, 270, .25 or 7mm. barrel. Sell—Ideal 257 dies and components. Clyde Day, Midway City, California.

WANTED—30 NEWTON AMMUNITION, ALSO a case or less of 12 gauge duck load high base shells loaded 4 shot. I still am collecting fine Sharp's rifles in Sporting & Creedmoor Models. M. C. Clark, 169 No. La Peer Drive, Beverly Hills, California.

WANTED—WINCHESTER .38-56 MODEL 1886 carbine, 22 inch nickel steel barrel, or light weight model, full or half magazine, solid frame, excellent, very good, cartridges and components. Reloading Tool and accessories, full length resizing dies .40-65 and .38-56. Ideal bullet sizing chamber 38-55 or .38-56 for Ideal Tool. Bartlett Bankston, 130 West Cedar, Denver, Colorado.

WANTED—K-22 MASTERPIECE, GOOD TO EXcellent and some ammunition. State price. Clay Buroker. Ch. Ph.M. McIntire Disp. Bldg., 2000. N.T.S. Great Lakes, Illinois.

WANTED—.30 AND .22 CALIBER D. C. M. Sporters, unaltered barrels and actions. W. A. Haughey, Burlington, Colorado.

WANTED—WINCHESTER MODEL 61, OCTAgon barrel .22 short, very good, some #2 undersprung traps. Claude Shuff, 620 Franklin St., Johnstown, Penna.

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WANTED—DELUXE BROWN PNEUMATIC Pistol 22. J. Frank Simonson, 150 Hempstead Ave, Lynbrook, New York.

"WILL SOME ONE PLEASE SELL ME A S&W Terrier, been trying for months to get one." Jim Copeland, Oak Grove, Louisiana.

WANTED—TO BUY LOCKS FOR GERMAN Machine guns, Micrometer caliber. Two to three inch; German machine gun MG-34. First Battalion, Georgia State Guard, Box 68, Rome, Georgia.

WANTED—SEVERAL STEVENS SINGLE SHOT pistols, give weight, condition, and price, Charles Spencer, Argillite, Kentucky.

WANTED—.38 SPECIAL BARREL. 50 CALIBER Navy pistol. Charles Meszaios, 1952 Paulding, Bronx, N. Y.

NEEDED BADLY .22 TARGET PISTOL. SPORTSman or Ultra preferred. Write particulars to Gordon Meloche, 2128 Royal, Berkley, Michigan.

WANTED—REMINGTON 32 OR 35. LIGHTweight, 250; 257-300 or 32 Special. Ammunition immaterial. Pay cash or trade Colt Positive .38 excellent inside v.g. outside 88 cartridges. John Borland, Emlenton, Penna.

WANTED—SHORT BARREL WOODSMAN OR Hi-Standard. Exposure meter. Officers three quarter coat, size forty. A/C Arthur Jackson, 345 Adelphi St., Brooklyn, N. Y.

WANT—ONE OR MORE 303 ROSS, 250-3000 7mm. 270. 30-06 barrels. Feather weight. Quail Dubble 16 ga. J. W. Howell, Gun Shop, Yorkville, Michigan. P. O. Richland.

WANTED—PERSONAL USE, BROWNING OR Remington Automatic, ribbed 12 or 20 gauge 28" excellent to perfect, or O&U. Trade 12 gauge shells for 20 gauge. High Standard "E" 6¾ perfect, 200 shells, $75.00. Manton Hebner, Washington, Iowa.

.300 H&H MAGNUM WITH AMMUNITION. Must be in perfect condition. State barrel length and price. Dr. F. J. Schini, Powell Bldg, Coeur d'Alene, Idaho. 3-44

WANTED—22 TARGET RIFLE IN GOOD CONdition, also Rolleiflex or similar type camera. Talley's, 510 S. Tryon, Charlotte, No. Car.

WANTED—BENJAMIN BB AIR RIFLE. EXcellent or perfect. Arthur Hibbard, 27 Central Ave., Hartsdale, New York.

WANTED—.22, .25 AND .30 CALIBER BULLETS, large and small rifle primers .250-3000 ammunition and Pacific dies, 65 mm. B&L spotter, Mirakel-Daylux 8x single set Winchester hi-side, excellent. Trade on above—241 Remington, ammunition 10" Camp Perry, 6X Malcolm, fast mounts, all excellent to perfect, .219 Zipper and .257 ammunition. Pacific scale. W. W. Lombard, Box 744, Irving, Texas.

WANTED—MODEL 70, '05 or .300 MAG. Browning Auto. 12, Junior Targetspot, K-22 .22 O.M.T. sleeping bag. Frank Rachetto, 8673 Rutland, Detroit, 10, Michigan.

WANTED—WINCHESTER 1886, .45-70 EXCELlent to new condition inside, also receiver sight for Winchester 94. Harold S. Bomberger, Manheim, Pennsylvania.

WANTED—COLT FLAT TOP BISLEY ACTION. Rest of gun no consequence. Fred Smith, Middlebury, Vt.

ZEISS 4X ZIELVIER; HENSOLDT 4X DIALYtan; 2½ Lyman Alaskan telescopes; .220 Swift Model 70 Winchester; cartridges .220 Swift; 35 Remington 30 G 1906; 30-40; .250 Savage; .300 Savage 280 Ross; 280 Dubiel. Bullets .280; .220 Swift; .30; Rifles .280 Ross; .280 Dubiel. Sidney E. Morris, 3051 Washington Blvd, Cleveland Heights, Ohio.

WANTED—METAL LATHE FOR GUNSMITHing and die making; Tool steel for making dies etc.; Gold rolled steel ⅞" to 1½"; Primers, bullets, cases. Fired 22 caliber copper cases. Turley Custom Loads, Logan, Utah.

WANTED—HIGH NUMBER NICKEL STEEL Springfield receiver, Enfield receiver, Swift barrel, also Swift components. Lt. R. O. Fleming, Box 82, Riderwood, Maryland.

TWO NEW OR GOOD USED COLT 32 ACP caliber barrels. Old Model. Ed Howe, Coopers Mills, Maine.

WANT TO BUY—HIGH GRADE 20 DOUBLE. Remington 20 pump, cash or trade 20-12 gauge shells. Harold Peterson, East Providence, R. I.

WINCHESTER TRAP 12-12-30 full ventilated rib, either grade perfect condition, L. W. Volland, Columbus, Indiana, R. 2.

WANTED—WINCHESTER 52 H.B. OR BULL gun, excellent to perfect. Edward Lynch, 114 So. Bradfield, Compton, California.

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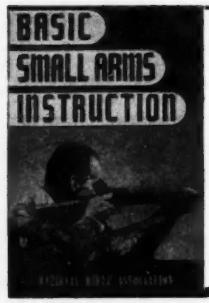

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WANTED—FOR CASH, M70 WINCHESTER Hornet with ammunition, 24" barrel, excellent to perfect. Give description and price. Alvey Stotelmyer, c/o Hagerstown Ice Co., Hagerstown, Md.

WANTED—RIFLEMAN MAGAZINE PREVIOUS to October 1934. 1911 Gov't. 45 frame or gun in poor condition. 22 pistol or revolver M-63 Winchester. Wm. Warga, 6519 W. Fairview Avenue, Milwaukee, 13, Wisconsin.

WANTED—WINCHESTER M70, .22 HORNET and ammunition. State price and condition. Carl Pendzick, Calverton, Long Island, N. Y.

WANTED—MUZZLE-LOADING TARGET RIFLES and full length telescopes. Moulds for paper patched bullets. Walter Grote, 431 N. McKinley, Canton, Ohio.

WANTED—WINCHESTER MODEL 70 IN 270 caliber and Browning Overunder shotgun. Write stating condition and price. H. C. Russell, Federal Cartridge Corporation, Minneapolis, Minnesota.

WANTED—TARGET SCOPE. FECKER, UNERTL or Lyman with quarter minute click mounts, 1917 Enfield as issued or action only. Hornet and .30 jacketed bullets. Large and small rifle and pistol primers (have license). Be reasonable. Trade—59, .30-'06, 220 gr. S. P. Loads for Hornet, 25-20, or .22 L. R. J. M. Smith, 199 Sandford Avenue, Plainfield, N. J.

WANTED—SPRINGFIELD STOCK, TYPE C, Square butt, 41" Model. Dale Phillips, 1712 Abingdon Drive, Alexandria, Va.

SHARPS RIFLES WANTED — ESPECIALLY want fine Creedmoor Target rifles, fancy sporting models and heavy barreled Buffalo guns. Will pay a premium for fine Custom Sharps with fine stocks and engraved presentation arms. Only want guns in fine condition. Also want Sharps Catalogs, bullet molds and loaded ammunition. Write complete detailed description and cash price—M. C. Clark, 169 No. La Peer Drive, Beverly Hills, California.

WANTED—177 CROSMAN OR 177 BENJAMIN. 317, perfect. J. H. Quisenberry, Atlanta, Illinois.

WANTED—WALTHER P. P. MODEL IN .22 L. R. caliber. Reising .22 automatic. Walther H. P. Army in Super .38 caliber only. Trade Colt Ace, 2 extra clips and other guns and ammunition. B. L. Humphrey, Montour Falls, N. Y. N.R.A. Member.

REASONABLY PRICED SAVAGE .300, 90 R OR RS good to fair and ammunition. 22 that has been cut down for my 8- and 11-year-old sons. Must be accurate and good action. Charles J Cooper, Brookview, N. Y.

WANTED—300 SAVAGE, LEVER ACTION, .32 Winchester in model 64 or 94. .30 Winchester model 94.33 Winchester model 1886, long bbls. Solid frames, condition good or better. Describe fully. Have 12 and 16 gauge shells to trade for ammunition for above guns. O. W. Rewey, Marshfield, Wisc.

WANTED—PERFECT MODEL 70, .220 SWIFT or without scope or loading tools. Write details. A. O. Newman, 1920 Lorraine, Houston 10, Texas.

WANTED—SPRINGFIELD .22 M-2 BOLT COMplete. DCM Sporter Stock. Pistol grip stock for Sharps-Borchardt. Joe Scott Kirton, Orlando, Florida.

WANTED—REMINGTON AUTOMATIC MODEL 81, .35 or .300 caliber. Ralph Dittmann, 427 Bender Road, Milwaukee, Wisconsin.

WANTED—MATCH TARGET WOODSMAN, K-22, O.M.T. .22 or .38 special, Colt single action. Clyde B. Kennedy, 11768 Wyoming Avenue, Detroit, 4, Michigan.

WANTED—TO HELP HIGH SCHOOL RIFLE Club instructor, 10 power target scope or target outfit, Bull Pup or other type with ammunition, or components and Ideal or Pacific dies. Also .38 special and .35 Remington dies complete for Pacific tool and small primer cap and arm for same, 1000 or more large and small pistol primers .25 and .35 caliber S. P., or mush, or other type bullets. Caliber .177 high power air rifle or air pistol. W. S. Parker, Coachella, Riverside County, California.

WANTED TO BUY—KRAGS, ENFIELDS, Springfields, Frontiers and ammunition for same. Wm. Frewen, 700 W. Washtenaw, Lansing 15, Michigan.

WANTED—BROWNING "SWEET SIXTEEN" condition at least good. Describe fully, price. David J. Bond, 33 Burbank Terrace, Buffalo, New York.

WANT—.38 SUPER AUTO, MANNLICHER CARbine, Hi-Standard (E) magazine, 9mm rifle. Sell or trade, rifles, pistols, ammunition. Charles N. Taylor, 1832 Madison, Hollywood, Florida.

WANTED—WE PAY CASH FOR GUNS AND ammunition. Alliance Gun Exchange, Alliance, Ohio. 7-44

WANTED—AMMUNITION, GUNS, FISHING tackle, outboard motors, what have you? H. E. Roehrs, 390 Demorest Avenue, Closter, N. J. 7-44

WANTED—S&W MILITARY & POLICE 2-INCH barrel, round or square butt. S&W Terrier, S&W 38 Special M&P Target, S&W 357 Magnum 6½ inch or 8¾ inch. S&W Kit Gun. Any quantity 22 Hornet ammunition also bullets only for .22 Hornet and 220 Swift. Dies for Potter duplex caliber. 220 Swift and 22 Hornet. E. S. Burrell, 717 Wyndmoor, Phila, 18, Penna.

WANTED—POOR 380 OR 45 COLT AUTOMATIC, good single action Colt Frontier, poor 38 Special Colt, good Enfield action, 30-06. Woodsman or Hi-Standard with good 6½" barrel. J. L. Shull, Tyler, Texas.

WANTED—BB GUN, 22 WINCHESTER, REMington, Mossberg rifle, very good to perfect. 94 Winchester 30-30 carbine poor to good. Edw. Lynch, 114 South Bradfield, Compton, California.

WANTED—FOR CASH. KENTUCKY FLINTlock and percussion rifles, also military long arms. Robert Abels, 860 Lexington Avenue, New York 21, N. Y. 1-45

WANTED—MODEL 52, ALSO MODEL 70 OR other 30-06 with scope and ammunition. Hawn Box 52, Alhambra, California. 5-44

AMMUNITION

TRADE—LATE ISSUE '06 FOR .22 L.R.'S. C. V. Rifle Club, 366 North Palm Canyon, Palm Springs, Calif.

WANT TO BUY .219 ZIPPER AMMUNITION. Big Timber Livestock Company, 303 Treasure State Bldg, Billings, Mont.

WANT .22 SHORTS AMMUNITION, ANY amount, will pay highest price per case (10,000) Immediate cash. Distance no barrier. Peerless Vending Machine Co., Department AR, 220 West 42nd Street, New York City.

WANTED — SHARPS .45 CALIBER 2⅞" straight shells either loaded, primed, or un-primed. also want cartridges for .45 cal. 3¼" straight, loaded, primed, or un-primed. D. H. Wray, West Rush, N. Y.

WANTED—LUGER AMMUNITION. 7.65MM. good, condition. Cadet Freeman Cunningham, 3534 S. U., New Concord, Ohio.

ONE OR TWO HUNDRED 7.63 MM MAUSER pistol cartridges. B. R. Gardner, Salyersville, Ky.

WANTED — .270 AMMUNITION WITH 130 grain bullets. Also .250-3000 with 87 or 100 grain bullets. Give make and price. M. E. Hutton, 222 South Mariposa Avenue, Los Angeles, California.

GUNS WANTED—REVOLVERS, RIFLES, SHOTguns. State model, caliber, condition and best cash price first letter. No trades. The Jaymac Co., Jackson, Michigan. tf

AMMUNITION, ALL TYPES WANTED. STATE condition, age and caliber. High prices paid. Make offer. Stoeger Arms Corporation, 507 Fifth Avenue, N. Y. tf.

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12 BOXES .38 REMINGTON AUTOMATIC $2.50 box. 65 boxes, .22 Winchester Hornet $2.00 box. 12 boxes .25 Remington S.P. $2.00 box. 15 boxes 30-30 Winchester M.C. $2.00 box. 25 boxes .257 Remington $2.25 box. 25 boxes .32 Remington Automatic $2.00 box. Prices include packing charges. Will trade for .22 or Shotgun shells. Byron Slater. Oak Hill, W. Va.

PER BOX: .357 MAGNUM, $2.25, .38 COLT Automatic, $2.25, 9mm. Mauser rifle cartridges, $2.00. .25-35, $1.75, .32 Remington autoloading, $2.00, .25 Remington autoloading, $1.50, .250-3000 Savage, $2.50. Arthur Forrer, Griffin, Georgia.

WANTED—8MM. MANNLICHER CARTRIDGES Western 1908, for personal use. Will trade 1000 Palma Match 22's, 12 gauge shells or cash. E. Johnson, Wingdale, N. Y.

WANTED—AMMUNITION 7.65 LUGER, SUPER 38, 22LR. Trade—Mauser 7.63 pistol Mauser 9mm. rifle ammunition or cash. Mandel, 249 Newport News Avenue, Hampton, Virginia.

SEND THREE CENT STAMP FOR LATEST LIST of Modern and Obsolete cartridges. Kimball Arms Company, Woburn, Mass. tf

CATALOG JUST OBTAINED A COLLECTION OF 2000 Modern and Antique hand guns, send coin 25¢ for your copy. Winchester Cartridges 32 S. L. Soft Point $6.50 per hundred. Winchester 35 S. L. Cartridges $6.50 per hundred. 38 Rim Fire Winchester Revolver cartridges $2.00 per hundred. 38-56 Soft Point Rifle Cartridges, $10.00 per hundred. 275 H&H Magnum 175 gr. Soft Point rifle cartridges $15.00 per hundred. 30 Govt. 1903 Soft Point 220 gr. Western cartridges, $10.00 per hundred. 30-06 Metal Patch 172 gr. late issue F.A. cartridges, $10.00 per hundred. 22 Remington Auto Loading rifle cartridges $15.00 per thousand. 38 Automatic Pistol cartridges $4.50 per hundred. 405 Winchester Stainless $15.00 per hundred. 765 Mauser Rifle cartridges, Peters Rustless $10.00 per hundred. 45 Automatic pistol cartridges, $6.50 per hundred. 35 caliber Smith & Wesson Auto cartridges, $5.50 per hundred. Public Sport Shops, Dept. R-68, 13 S. 16th St., Phila., Penna.

TRADE—6 BOXES 12 GAUGE SUPER X NO. 0 buckshot and 3 boxes (75 rounds) of 12 gauge rifled slugs for 12 gauge shot shells, 6, 7, 7½ ch. Will also trade FA '36.30-06 or cash for up to one case of same. Willard Sloper, 310 West 7th St., Albany, Oregon.

STILL SOME AMMUNITION AT 1942 PRICES. Mostly large B.P. rifle calibers. Some smokeless. Some components. No list. State wants. Calvin Goddard, 3533 Quebec, Washington, D. C.

MODERN AND OBSOLETE CARTRIDGES ALL sizes. Send list for quotation. Ed Howe, Coopers Mills, Maine.

WILL TRADE 150 GRAIN WINCHESTER SOFT Point .270 bullets for .130 grain .270 bullets. Gerald Cross, Lathrop, Missouri.

WANTED—AMMUNITION 270 CALIBER, 100 and 130 grain Silver Tip or pointed expanding; 220 Swift 48 and 55 grain pointed soft point, Winchester ammunition only. 22 Hornet either soft point or hollow point either Winchester, Remington or Super X. Ammunition must be fresh and in clean original factory boxes. J. Harding Anders, R. D. #2, Norristown, Penna.

WANTED—50-70 CARTRIDGES, ALSO SOME reloadable empty 50-70 cases. W. Carr, 9572 Burnette Ave., Detroit, 4, Michigan.

WANTED—LOADED SHELLS TO FIT DOUBLE barrel English Express rifle caliber .475. State age of shells, how many and load. Write Box 575, Malta, Montana.

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500, GOVERNMENT .30-'06, F. A. 41, 9¢ EACH or less. E. Burleson, 288 S. Arlington St., Akron Ohio.

WANTED FOR PERSONAL USE—SHOTGUN shells, 410, 20, 12 gauge. State quantity, kind, price, or will offer. Pool, 2706 West 78 Street, Inglewood, California.

IDEAL 220 SWIFT LOADING TOOL, $10.00, Ideal 25 caliber bullet mould, $2.50, Powder scale, $5.00, very good condition. Merrill L. Cannon, Grandby, Conn.

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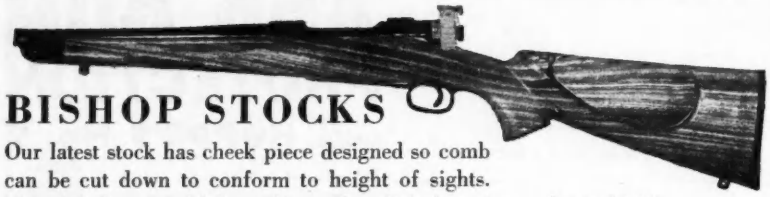

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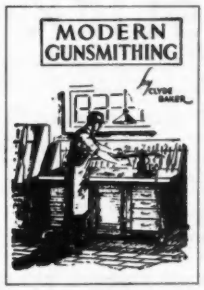

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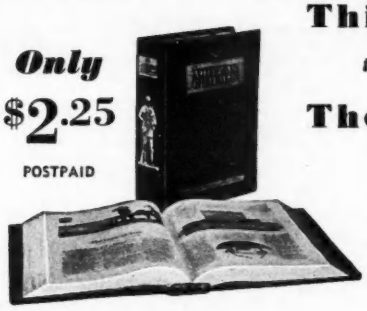

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FOR SALE—6.5 MANNLICHER SCHOENAUER carbine, full length stock with cheek piece, Lyman rear sight, Hensoldt Dialyt 4x scope in D.R.G.M. single lever mount, sling, in perfect condition, 80 factory loads, $225.00. W. J. Holliday, Box 2872, Tucson, Arizona.

REILLY DOUBLE HAMMERLESS .450 RIFLE, cases, bullets, die. Want Leica or fine double shotguns, other trades considered. F. Tubbs, 3647 Lilac, Lansing, Michigan.

SAVAGE 99 E.G. 300 PERFECT 20 SHELLS, $80.00. Remington 35 slide 141, excellent, $80.00, peep sight Savage Sporter 32-20, excellent in, very good out, $35.00. Savage 219-25-20 perfect, 50 shells, $27.00. Colt Officer Model 22 L.R. heavy frame 6" barrel excellent to perfect, $65.00. Moreau-Clair 8 x 25 binoculars excellent, $45.00. Money orders. Ray Rohde, Waupaca, Wisc.

A FEW BOXES EACH—25-35, 32 WS, 25, 30 and 32 Remington, 30-30, 30-06, 300 Magnum, 35 Remington, 257-R, 270-W. Trade for jacketed bullets, 22, 25, 30 caliber. Want 270 die. Write for prices. A. French, 4603 Westminster, St. Louis, 8, Missouri.

70-06 WITH ALASKAN STITH MOUNT LYMAN 48, excellent, $200.00. 70—2R complete conversion by Griffin & Howe, Weaver 29S, Redfield mount. 200 Sisk, 200 primers, cases excellent, $175.00. Noske mount for 70, $15.00. Will trade. Earl Price, Lodi, Wisconsin.

REMINGTON M-121, WEAVER 333, INSIDE EXcellent, outside good, 300 cartridges, $36.50. Remington 22 Automatic M-16 good, stock cracked but solid, 200 cartridges, $15.50. Enfield 30-06 not reblued, Bishop stock, B mounted Weaver 330, excellent, some boot for Super M-70, .270, receiver sight, excellent, trade components. Man's fur coat, $15.00. German Army Glass, $20.00. Rudolph Schreiner, Palmyra, Nebraska.

WINCHESTER 52 SPORTER PERFECT $95.00, New Ithaca #5 trap gun 32" barrel, adjustable recoil pad, perfect $145.00. Hi-Standard H. A. 4½" barrel, holster, trigger shoe, excellent $55.00. Few .22 L.R. John A. Henrich, 35 Riverside Ave., Lancaster, Penna.

NEW WEAVER SCOPES, 29S WITH T MOUNT $14.30, 29S with B mount, $18.70, 330 S & with T mount $31.90. 330 S & with B mount, $36.30, dust caps, $1.30. Ralph G. Allinson, Santa Maria, Calif.

HARRY POPE 22 L.R. HEAVY 30" BARREL, Winchester low-side action, beautiful crotch walnut stock and fore-end, Lymans, 48 and 17A adjustable butt-plate, very accurate, barrel perfect, action and stock very good to excellent, $90.00. Details on request, photo 10¢. Wanted—1000 22 long rifles. Leonard Morton, 121 West Ormsby, Louisville, 3, Ky.

WANTED—K-22 IN EXCELLENT OR PERFECT condition. All replies acknowledged. Lt. James G. Robb, 87th NTG, AAFNS, Hondo, Texas.

AMMUNITION 35 AND 405 WINCHESTER 6.5 Mann, 38 ACP, 40-65, 40-72, 40-82, 25, 30, and 32 Rem., 25-36, 25-35, 270, 220 Swift, 22 Autos, 22 Long rifle, 7.63 and 7.65 Mauser, 30 Newton, 7mm. 7.62 Russian 303 British, 303 Savage, 300 Savage, 30-30, 32 Special, 45 Auto, 44 Special, 38 Special and S&W, Shotshells, etc. Trade. Stamp. F. Emerson, Box 54, Auburn, Mass.

EASTMAN MODEL 20, 8MM CINE KODAK, F 3.5 lens, excellent, $30.00. Eastman Magazine, 16mm Cine Kodak, F 1.9 lens, excellent, $125.00. Eastman, 16mm enlarger, excellent, $16.00. Bell-Howell, 129D Projector and case, very good, $200.00. Bell-Howell, Editor, 16mm, excellent, $35.00. Bell-Howell, Block letter titler outfit, excellent, $8.00. General Electric, Light meter, excellent, $22.50. Leonard Goick, Austin, Minnesota.

FOR SALE—HI-STANDARD MODEL A-6½", EXcellent plus, 500 L. R., Sheepskin holster, $65.00. Clarence Hill, Dixon, Illinois.

WINCHESTER 52 SPORTER, LYMAN 48, SCOPE blocks, sling, about perfect, sheepskin case, $105.00. Winchester A-5 scope, Lyman ¼ min. click mounts, excellent, $35.00. Zeiss 3 x 15 Prismatic Opera binocular, optically perfect, outside good, $55.00. Prewar 9 mm Eagle Luger, 3⅞", excellent plus, 50 cartridges, $70.00. E. R. Thomson, 23 Pinckney St., Greenville, S. C.

300 SAVAGE, 32 SPECIAL, 30-30, 45 AUTO, 44 Special, shotshells, 25-35's, 270's, and primers of all types on hand. Write for list, Stamp. F. Emerson, Box 54, Auburn, Mass.

WINCHESTER 52 BULL GUN VAVER WLLAT, rear 5237, perfect $95.00. Winchester 68 very good $10.00. Official Boy Scout 4X binoculars & case, $12.00. Leonard Goick, Austin, Minnesota.

RIFLED SLUGS, 12 GAUGE ONLY MACHINE made, 407 grain. 15¢ each. No c.o.d.'s please. Ned F. Kailing, 8026 No. Division Road, Milwaukee, 9, Wisconsin.

COLT .45 AUTO, ARCHED HOUSING, EXCELlent $55.00. S&W M&P .38 Special 5" perfect, $50.00, S&W M&P .32-20, 4" perfect, $50.00. .30 Luger, grip safety, perfect, $55.00. Colt .38 Military Auto., excellent, $35.00. Colt .45 SA very good, $30.00, S&W .38 Special snub nose, square butt, double carved ivory grips, carved Myers holster, perfect, unfired, $95.00. 1917 S&W ramp front sight, rear sight, honed action, excellent plus, $65.00. Shells with above. Want excellent Ace. Clay Fielden, Texarkana, Texas.

SELL OR TRADE—417 WALNUT HILL, 29-S, excellent, $75.00. Remington 121, 29-s, perfect, $65.00. Wollensak 8 x 30 binoculars, case, straps, excellent, $80.00. WANT—10 or 12 power target scope excellent, complete K-Hornet, tool, and components. Curtis B. Flinchbaugh, R.F.D. #2, Red Lion, Penna.

36 CALIBER "SPILLER & BURR" CONFEDerate revolver, made in Atlanta, Georgia. Original and fine, $75.00. Details, stamps. E. R. Thomson, 23 Pinckney St., Greenville, S. C.

45 COLT 1917 REVOLVER, GOOD, $55.00. ANother 1917 fair, $45.00. .45 Colt automatic with holster $55.00. .38 Special S&W, good with box of shells, $55.00. .455 Webley Mark VI, good, $50.00. .765 Luger with holster $50.00. .32 Spanish automatic, like new, $20.00. .25, .32, and .380 Colt and Savage automatics, $25.00 each. For complete list of antiques and modern firearms write Elliott Gillespie, 4816 South Aldrich Avenue, Minneapolis 9, Minnesota.

WANTED—MODEL .70 WINCHESTER, CALIBER 250-3000. Excellent to good. Also 270 cal. mold. State price first letter. Harry Scaroni, Box 55, Wasco, California.

REMINGTON .37, SLING, PARKER ROD AND sheepskin case, excellent condition, $80.00. Want heavy barrel for muzzle loading rifle. Harold Fuller, Rt. 1, Box 72, Riverdale, California.

SELL OR TRADE—LEFEVER ARMS COMPANY, double, hammerless, grade F. 12-32 mod. full, damascus, stock poor but usable, gun good otherwise; 75 max. loads 6 ch, 25 max. 2 ch. $40.00, or trade for 25-35 carbine and ctgs, or ? Rifleman, '32 to '43, 12 years, complete, good, $15.00, or 20 gauge max. loads, or ? F. A. Baker, Donnelly, Minn.

WANTED—LYMAN 10X SUPER TARGETSPOT. Write or ship C.O.D. to L. B. Walsh, 6249 South Huson, Tacoma 9, Washington.

WANT—ONE PERFECT 30-06 D.C.M. SPRINGfield sporter stock as issued. John McClintock, 4817 Walnut Drive, R2, Pomona, California.

FOR SALE—COLT .45 NATIONAL MATCH, excellent, $95.00. Colt OM target .38 heavy barrel, very good, $65.00. Clarence Wall, Malverne, New York.

CARL ZEISS 8 X 40 "DELACTEM" C.F., CASE, $200.00. Colt Woodsman 4½" new, ammunition, $75.00. .220 Swift 48 grain factory ammunition, Sisk bullets #120-9½-116 primers, empties. Ernest Fumasoli, 5937 Magnolia Avenue, Chicago, Illinois.

22 COLT MATCH TARGET, PERFECT, SHEEPskin case, 100 shells, brush, $75.00; Weaver 330C, cross hair and post, leather caps, B mounts, optically perfect, blueing scratched, $36.00; Savage 22, Model 23AA, 4 power Wollensak scope, very good to excellent, bore and optics perfect, $45.00, deluxe Enfield stock, left hand cheekpiece, $12.00; N.R.A. spotting scope, beautiful leather case, tripod thrown in, $85.00; original Fox Sterlingworth 12 gauge, 28 inch barrels, open and modified choke, excellent to perfect, $70.00. H. S. Van Kirk, 3524 Oneil Blvd., McKeesport, Pennsylvania.

FOR SALE — 380 COLT AUTO, HOLSTER and 14 cartridges, good, $30.00. Mossberg Spotshot and stand, excellent, $30.00. Stevens bolt action 410 ga. repeater and 42 shells, new $20.00. Riflescope cover sheepskin zipper, 23 inches, $4.00. Money Order. Dr. F. W. Danby, 1103 West Lincoln Ave., Milwaukee 7, Wisconsin.

HIGH STANDARD E, 4½ BARREL, ROPER special grips, v.g. 500 LR, $67.50. DWM Luger, 7.65, 3½ barrel, v.g. box cartridges, $50.00. Woodsman 6" barrel, hand carved walnut grips, v.g. 500 LR, $70.00. Colt Shooting Master, 38 Special, Sanderson grips, v.g. 6 barrel, $70.00. Colt 38 Super, v.g. box cartridges, $70.00. Excellent Ace, $85.00. Enfield-Bishop sporter, 30-06, $45.00. Want —W70 deluxe 30-06, hunting scope. Benjamin Air Rifle or pistol. Springfield or Enfield issue. Almon Williams, Berea, Ohio.

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